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# DRUG & CHEMICAL MARKETS

Established 1914

A Weekly Business Paper and Prices Current on  
Chemicals, Drugs, Colors, and Aromatics

VOLUME XV

NEW YORK, JULY 23, 1924

NUMBER 4

*R & H*  
CHEMICALS  
AND  
SERVICE

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KNEW WHAT R & H CUSTOMERS  
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**In This Issue** { *Is Citric Acid Over-Produced?*  
*What's Wrong With Insecticides*

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Airbrakes, perhaps, play a greater part than any other one thing in making present day railway facilities possible. Rubber airbrake hose is essential to their successful application. It was necessary to find a way to absorb road vibration before the automobile could be a success. Rubber in automobile tires (and in nearly fifty other essential parts) has made automobiles commonplace.

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VOLUME XV

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## The Week in Brief

### News

Cures for insecticide ills discussed by leading manufacturers, who suggest some remedies.

Is citric acid over-produced, or is the available supply about equal to average consumption during ten years past?

Morana, Inc., New York, will become agents for Etablissements Antoine Chiris, of Grasse, France, in the United States and Canada, on Aug. 1.

### Markets

Outside of a continued tendency of leading industrial chemical manufacturers to refuse to shade prices under current low levels, the situation shows no material change. Resale goods are still available at concessions. General industrial demand is in the midst of Summer dullness and is not expected to pick up before September.

In the dull market for coal-tar crudes and intermediates, the only outstanding change this week has been a cut in phenol prices by producers. Position of benzol, toluol, and other light oil distillates continues strong on scarcity. With normal supply, prices for these crudes would be two to three cents per gallon lower, is market belief.

Oil market has continued in fairly strong position during the week. Following advances in the flaxseed markets, crushers have advanced linseed oil prices 4c per gal. Chinawood oil continues strong. Coconut oil is fairly active.

Fine chemicals are generally holding firm in spite of the off-season in a few of the items. Cod liver oil is steady and buying for future delivery is active. Imported cream tartar is firm.

Essential oils have developed new firm features over the week. Oil cassia is higher as well as oil cloves. Oil Java citronella is still scarce, and July-Aug. shipment is named at \$1.15 to \$1.20 pound.

Crude drugs are generally quiet although some active buying of cascara sagrada has been reported during the past week. Curacao aloes are higher.



# MATHIESON

Liquid Chlorine-Caustic Soda-Soda Ash  
Bleaching Powder-Anhydrous Ammonia  
Modified Virginia Soda-Bicarbonate of Soda

## Are YOU Contributing to This Economic Waste?

**M**ANY large consumers of caustic soda are neglecting their own best interests and contributing to a needless economic waste by continuing to use solid caustic instead of the modern development—caustic soda in liquid form.

Caustic soda, when first manufactured, consists of a solution containing 75% or more of water. To furnish solid caustic, fuel must be consumed to drive off all this water, drums must be provided as containers and labor expended in filling and handling the drums. At the consumer's plant the process is reversed; the solid caustic is made once more into a water solution, but again at considerable cost for labor in handling and cutting open many drums and in dissolving the caustic. Disposal of the worthless empty drums adds another item of expense.

The use of liquid caustic soda in tank cars eliminates all this economic waste and materially lowers the operating costs of large consumers. Our savings in production costs are reflected in a lower price per hundred pounds on our caustic soda in liquid form.

*Mathieson Liquid Caustic Soda is available in any strength solution (up to 50% sodium hydroxide) that best meets the consumer's requirements. The "Eagle Thistle" product is the purest caustic obtainable.*

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*95% Dark*

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*Particularly High Melting Point*

*For Dyestuffs Manufacture*

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FLOTATION OILS AND REAGENTS

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The *Barrett* Company

40 Rector Street



New York City

# DRUG & CHEMICAL MARKETS

VOLUME XV

NEW YORK, JULY 23, 1924

NUMBER 4

## WHEN A SALESMAN IS A SALESMAN

Salesmen of a Kansas City firm of jobbers are making a trip of two thousand miles or more visiting the plants of manufacturers whose products are sold by them. The purpose of the trip is self-evident and it is certain that the jobbers will get back the cost of the trip in increased sales resulting from a thorough knowledge of the goods and the conditions under which they are made. In making a purchase of machinery recently the officials of a new company met the representatives of manufacturers and were much impressed by two salesmen who appeared before them. After making the award the officials sent a letter to the employers of the salesman who failed to get the contract praising his ability and expressing regret that they had to decide against him, saying that the other salesman had convinced them that the machine he represented was better for their purposes. One was a great salesman, but the other knew his machine in every detail and what it could do.

The same confidence is shown when chemical consumers find that a salesman knows what he is selling and how it must be used to suit the purchaser's problems, whether manufacturing, dyeing or exporting. Lectures for chemical salesmen arranged by the Salesmen's Association of the American Chemical Industry proved a boon to many young men on the road, and the custom inaugurated by many manufacturers who hold "conventions," which are attended by all salesmen and agents, has improved the service greatly. The firsthand knowledge obtained by seeing for themselves how the goods are made is invaluable as a selling argument. Competition will be so strenuous when business again picks up that the salesman who knows the product and its uses is sure to outstrip his rival who relies upon personality and liberal entertainment to make a sale. He may do it once, but knowledge, which is power, will help the educated and experienced salesman to win his customer from him on the next trip.

## WALL STREET GOSSIP

What the public does not know about chemicals and chemistry is a great deal, and the popular imagination still retains the memory of alchemists who sought gold out of the baser metals. Ignorance plus imagination, added to the advertising which the chemical industry had gratis during the war, makes the chemical field a fertile pasture in which to fatten Wall Street lambs. It may be flattering to the industry to see "Chemical Stocks" reported and commented upon as a distinct and recognized

group of securities, but these attentions have their drawbacks.

Wall Street always deals lavishly in rumors, and out of "new processes," "combinations," and "by-products" the financial gossip can weave tales of golden wonders that make Monte Cristo and Ali Baba seem like peanut vendors. During the past year Dame Rumor has made free with the names of U. S. Industrial Alcohol Co., Davison Chemical Co., Mathieson Alkali Works, Commercial Solvents Corporation, and Allied Chemical & Dye Corporation. And as a result, the securities of the companies have all fluctuated, up or down, in greater or less degree; but—and this is the point—their quotations have registered, interest has been stimulated, and sales have been made. So far so good, and while the effect of the rumors is only felt in the market price of the company's stock, no great harm is done to the real business of the corporation as a producer and distributor of chemical products. But Dame Rumor is apt to be careless and she has been known to be a malicious person, so that sometimes, while she gossips with her eye on the ticker, her tales go far afield from the financial district out into industry and trade. And some of these rumors do have a bearing on the sale and purchase, not only of securities, but also of goods. Such rumors may hurt or may help business; but they are seldom of permanent advantage either to the individual company or the chemical industry as a whole. It will be too bad if an appreciation in financial circles of the basic importance of industrial chemicals continues to be coupled with a misunderstanding of the functions and organization of the chemical industry.

## NITRATE AND COPPER

Settlement of the reparations question will be a boon to two large industries which are anxiously awaiting the long-expected demand from Europe. One is the copper industry; the other Chilean nitrate. Germany has been able to produce enough synthetic nitrogen to supply her most urgent necessities, and during the past twelve months imported only 9,000 tons of nitrate, but her industries and public utilities, telephone lines, railroads and electric manufactures must have copper and lots of it. With money to buy what she really needs Germany alone will greatly stimulate trade in both copper and nitrate, and other European countries will begin to supply their wants when the political and financial situation improves. Exchange will become more stable and trade will broaden out.

American copper mine interests and British nitrate producers who control most of the oficinas in

Chile are confident that the demand will come, and are not worried by the present small orders because they prefer to conserve their supplies until prices are more attractive. The nitrate producers fully expect an increased demand and have made a preliminary estimate of 2,350,000 tons consumption for the year ending June 30, 1925, against 2,190,000 tons consumed during the past twelve months. Stocks carried over are comparatively light and are estimated at 64,000 tons in Europe, while the United States is nearly bare of stocks except the war reserve which is estimated at 60,000 tons. The consumption in the United States and in Japan was slightly less for the year just closed than for the previous year, and increased demand is expected from both countries. The nitrate producers do not expect that Muscel Shoals will be in operation for two years or longer.

Stocks of copper in the United States are not large, and when it is realized that not sufficient copper is produced to supply the world's demands under normal conditions, copper prices will advance in the struggle by European countries to fill their wants. Another point of importance is the failure of copper factors to discover new deposits, recently. The mines in Michigan and Montana are nearing the limit of production, while those in Arizona cannot supply sufficient to offset the reduction in out-put in the Northwest. Long established properties in Alaska and South America are being drawn upon heavily, but no new mines of importance are being developed. When the nitrate deposits of Chile are exhausted and the copper mines of the world cease to produce in quantities needed for the rapidly expanding industries, what will the coming generations use as substitutes?

#### THE ALCOHOL STIPULATION

Unless a manufacturer of products containing alcohol shall exact from purchasers of these products the stipulation that the purchaser will hold the goods always subject to the full and uninterrupted inspection of Prohibition officers, alcohol withdrawal permits of the manufacturer will be denied. According to letters which are now being received by consumers of alcohol from the Prohibition Unit, unless the manufacturer enforces the now notorious "stipulation" on his customers, the Prohibition authorities will swing their customary blackjack,—denial of withdrawal permits.

If ever there was a high-handed and ridiculous requirement of an American business house, this latest "stipulation" making manufacturers responsible for their customers, outstrips all predecessors. Although the manufacturer has no way in which to make the jobber of his goods submit to "uninterrupted inspection" or to make reports, the manufacturer is held responsible. This is very much like threatening to hang the president of the Colt Arms Company as insurance against some sporting goods dealer selling a Colt pistol which might be used for homicidal purposes.

The intent of the alcohol "stipulation" is perfectly clear. It is to throw a goodly portion

of the prohibition enforcement load on the shoulders of the legitimate manufacturer. It is to make him responsible for the conduct of his jobbers, in the hope that his sales of alcoholic preparations will be drastically curtailed to the few jobbers who will agree to the uninterrupted search of their premises at any time. Whatever the intent of the "stipulation", it is unquestionably illegal. Prohibition enforcement officials cannot lawfully withhold alcohol from a manufacturer who has not violated the law. The Courts have decided this. And, by no stretch of the imagination can the new "stipulation" be called part of the law.

Manufacturers will have to enter the lists again to combat the same group of fanatics who, in spite of promises to the contrary, still insist upon throwing every obstacle they can lay hands on, in the path of the legitimate alcohol consuming trades.

#### *Many Men: Many Minds*

"Are Profits Immoral?" asks Sir Ernest Benn, publisher of "The Chemical Age", London, in an article in the June 14 issue. He says: "Any scheme of things which eliminates profits robs the rest of us of the opportunity of expressing our opinion of the service which is offered to us. Through profits we keep the producer in a position of subservience to the consumer; without profits the producer would be top dog, and that is really the position that the Socialists desire to bring about. The weakness of their plan is that unless the producer is in a position of subservience he will not produce. He says that he will, and he argues that he will take a higher view of his functions and do better work. This, as a very pretty argument, is worked up by such experts as Mr. Tawney in his 'Acquisitive Society,' but it does not ring true."

Franklin Remington, of the Foundation Co., told the National Foreign Trade Convention in Boston that foreign loans are trade builders. He said: "Sound American foreign trade policy clearly calls for every effort on the part of American finance to promote occupation for our people. It is of the utmost importance that our investment bankers, when negotiating foreign loans, should always have it in mind so to handle them as to further American trade, and they should, as far as practicable, provide for the expenditure of an appropriate portion of the proceeds in this country for prompt, rather than for ultimate exports."

Dr. Adolf Miethe, professor of the Charlottenburg University of Engineering, Germany, says that in co-operation with his assistant, Dr. H. Stammerich, he has succeeded in obtaining gold from the decomposition of mercury by the introduction of electrical energy. Mercury, Dr. Miethe says, decomposes under certain conditions to helium and gold, the precious metal being left as a residue while the helium passes off in the form of gas.

According to a Fall River paper at a meeting of the women folk of some of the leading manufacturers of that city it developed that not one of them was using any of the goods made in the Fall River mills or wearing any cotton goods of any kind.—Lawrence Telegram.





# Industrial Chemical

## SECTION



## The Correction of Insecticide Ills

*Manufacturers and Dealers Tell What is Wrong in the Trade and How to Overcome Present Difficulties*

**"M**ONEY tied up in the insecticide business has not been a productive investment, and, according to several experienced authorities in this field, will continue to prove unprofitable until the sales methods of the industry are subjected to radical changes."

This was one of the most significant conclusions in a recent discussion in DRUG & CHEMICAL MARKETS of the demoralization of the insecticide business, under the title, "Insecticides and Sales Sense." For years past, manufacturers have fought each other for business without any sustained or concerted effort to increase the general use of insecticides. That the basic idea behind the sales methods has been all wrong, is very strongly evidenced by the lean profits of the industry over a period of years.

Manufacturers' opinions, given herewith, on a solution of the trade's problems, are none too hopeful of immediate improvement.

**H. B. Goodwin, Latimer-Goodwin Chemical Co., Grand Junction, Colo.:** "Your article entitled 'Insecticides and Sales Sense' presents a very able analysis of the present situation in the insecticide industry. However, we cannot agree with your basic proposition that the main need of the industry is a twelve months operation of the plants. This would be true if we knew there would be a market for the output. Under the present situation, however, this is very doubtful.

"We cannot see where much relief can be brought to the industry until a trade association is formed, whose function will be to gather statistics and promote an educational campaign to increase the use of insecticides. There may be remedies that will temporarily help the situation, but until there is some united action, the only safe policy is to produce the tonnage that can be sold at a profit, and let the consumer pay for his lack of foresight in times of scarcity."

**W. O. Tuck, Jr., Corona Chemical Division, Milwaukee, Wis.:** "Our production is sufficient to keep our factories running full time about nine months of the year, which, I believe, is unusually good. Therefore, I think I can say that our selling expense as applied against our production is a low cost per pound.

"The following cost on calcium arsenate per 100 lbs. does not include any material cost for white arsenic, calcium salts, alkalis, acids, etc. It is not in any way a cost of production, etc.,—merely the overhead.

Converting white arsenic to acid.....	1.25
Factory superintendent and overhead, such as power, light, heat, etc.....	1.50
Manufacturing labor, filling labor, pkgs., etc.	1.75
Advertising and promotion.....	.85
Freight, express, cartage, storage, etc.....	1.15
Sales, labor and commissions.....	.80
Traveling expenses.....	.55
Office labor and expense.....	.55
Administration, taxes, insurance, interest, etc.	.60

\$9.00

"Therefore, to produce calcium arsenate the manufacturer has to assume, to start out with, an overhead of 9c per lb. which, I believe, is low in comparison to the smaller producers. For instance, let a manufacturer who produces 500,000 lbs. of calcium arsenate figure up the expense of all the above items and he will have run his business very efficiently if the expense of all the above items did not amount to over \$50,000—which you can see is 10c per lb.

"It seems quite likely that some manufacturers, their executives or 'backers' (some of them have 'backers'), do not know about these figures, but if put straight before them might relate them to their selling price and in that way stop losing money. They prove, too, that calcium arsenate cannot be sold at ½ to 1c per lb. over the market price of white arsenic. Such remarks are made to establish as low a market on calcium arsenate as possible either for personal or political reasons."

**George Riches, Bowker Chemical Co., New York:** "Those of us who have been in the agricultural chemical business long enough to have a real understanding of its problems, do not believe that conditions can be improved by superficial means. Economic laws are functioning in this industry, as in all others, and we must rely upon these foundational forces to bring about the stabilization we all want. And, in fact, these natural laws have recently acted in powerful fashion, and the effects so painfully felt will have a marked influence on the future policies of many concerns in this branch of the industry."

**A. E. Holst, Sherwin-Williams Co., Cleveland:** "It is our opinion that if all insecticide manufacturers established prices on the basis of production and selling costs and maintained those prices throughout the season the ill with which the industry has been afflicted would quickly vanish."

**G. R. Cushman, Riches, Piver & Co., New York:** "I have been greatly interested in reading the article on 'Insecticides and Sales Sense.' You have certainly

touched some of the fundamental points necessary for manufacturers of insecticides and fungicides to consider, if they ever hope to stabilize the industry. It is very unfortunate that so many of the manufacturers have in practice during the past several years ignored the position of the dealer and his value to both the consumer and the manufacturer.

"If the industry is ever to be put upon a stable basis it does seem to me that the manufacturer and the dealer must be brought into co-operative harmony. Each must look upon the other as a partner in the enterprise and together they must construct a service to be rendered to the consumer that will attract his support."

**M. A. Blanchard, James A. Blanchard Co., New York:** "We have participated in so many discussions over the past few years regarding the sales conditions and prices of insecticides and fungicides to no avail, that we have reached the definite conclusion that there is no artificial method available whereby this situation can be held in line. Economic law will unquestionably have to take its course, and what its result will be, we would not attempt to prophesy or imagine. Your desire to do some good for this endeavor is laudable, but we feel, to no avail."

**E. E. Luther, California Spray Chemical Co., Watsonville, Cal.:** "We certainly do believe in open prices, and if you can effect them in the insecticide industry, I believe you will accomplish a great benefit for the industry."

**W. H. Rose, Interstate Chemical Co., Jersey City, N. J.:** "There is much that you say that is quite correct, and your article is certainly very much appreciated by this company. We hope that something is going to develop to better this situation."

**D. K. Falvey, D. K. Falvey & Son, Westfield, N. Y.:** "We have read your article relative to the insecticide conditions. No photographer could produce a more complete picture of the situation. I can not offer a remedy for the condition. If the manufacturers have not honesty enough to stand by an agreement and sell goods at an honest price and profit, I do not see how the dealer can offer any suggestion or plan to rectify the present demoralized condition."

"We do not object to the price, whether high or low, we sell with a profit above cost at all times, but do feel the competition with other brands that are sold at sixty to eighty dollars per ton less than the reputable old firms sell at."

"Selling co-operative associations at the regular dealers prices means a cut in price immediately from two to four cents per pound on arsenate of lead. If the co-op sells at no profit, in a short time the legitimate trade must quit handling the goods and then some manufacturer will be stuck with a stock on hand."

#### Dealers Suggest Solutions

**L. D. Burns, Ashcraft-Wilkinson Co., Atlanta, Ga.:** "I have read the article in DRUG & CHEMICAL MARKETS and my opinion in this matter is as follows: First, the insecticide business is highly seasonal. Second, it is fickle, some years insects are plentiful, other years climatic conditions virtually control them without poison. Third, there is an over production of calcium arsenate. Briefly, these three are the principal causes for the present unsatisfactory conditions in the market."

"The best way to overcome these difficulties, in my opinion, would be: 1st—Manufacturers should provide ample operating capital to finance operations over several months' period or limit production to bona fide sales for nearby delivery. 2nd—Manufacturers should sell through distributors only on commission basis so that distributors will not become overloaded and forced to dump goods at distressed prices. 3rd—Manufacturers

should select a distributor whose overhead is already paid on other items and limit distributor's sales to dealers only, thereby permitting each dealer to name his own retail prices in his community without competition from the manufacturer or distributor. 4th—No manufacturer should guarantee prices and should figure only reasonable profits. 5th—Each manufacturer and distributor should use his utmost effort to avoid selling speculators. Speculation will demoralize the market quicker than any other one factor when market conditions are adverse. When markets are favorable the speculator makes a profit all out of proportion to the service rendered."

"Competition among manufacturers is legitimate and should be maintained but a manufacturer should not compete with his own customers and this can be avoided only by utilizing the established channels of distribution. Each manufacturer should have only one distributor. One distributor, however, with proper organization could represent a number of manufacturers. In some industries, one in particular I have in mind, one distributor represents all the manufacturers. Competition is a good thing when it operates fairly, however, the methods in use at present by calcium arsenate manufacturers frequently develop unfair competition from the dealers' standpoint, therefore, the fewer channels of distribution would tend to lessen unfair competition by removing overlapping territory among distributors and restricting competition to manufacturers on the one hand and local dealers one with the other on the other hand. This competition is legitimate and fair but where the manufacturer competes with his own dealers as in the past it is certainly unfair competition and should be discontinued."

#### DICKS, DAVID CO. SUES FOR \$250,866

(Special to DRUG & CHEMICAL MARKETS)

Newark, N. J., July 23.—Dicks, David Co., Jersey City, formerly of New York, has brought suit against Edward Maurer Co., Inc., New York, for \$250,866, in the Federal Court here. The suit was originally filed in the New Jersey Supreme Court. It is alleged in the complaint that the Maurer company ordered 800,000 pounds of synthetic indigo paste, about half of which was paid for, but a balance amounting to \$250,866 is due on the remainder, it is claimed. The Maurer company in its answer says Dicks, David Co. failed to perform its part of the agreement as to quantity, quality, packing and periods of delivery. Shipments were to be in 1,000 barrel lots from a French port to Shanghai, China.

#### NEW KATZENBACH & BULLOCK ASSETS

(Special to DRUG & CHEMICAL MARKETS)

Trenton, N. J., July 23.—William E. Green, receiver for Katzenbach & Bullock Co., who requested a re-audit by the Government in the matter of taxes, says the Federal officials admit that a rebate of \$7,000 is due Katzenbach & Bullock Co. The receiver is ready to file his final report, but has office supplies on hand which must be sold, and open book accounts of \$31,000, together with accounts of \$147,000 with firms in bankruptcy.

#### AMERICAN SMELTING TO SELL ARSENIC

American Smelting & Refining Co., announces that it has assumed the sale of white arsenic produced by the company and formerly sold by Edward Hill's Son & Co. By the death of Hugh Hill the firm of Edward Hill's Son & Co. has been automatically dissolved. The sales by the American Smelting & Refining Co. will be in charge of L. G. Matthews, assisted by L. H. Sonnenborn.

# CHEMICAL ENGINEERS MEET IN DENVER

(Special to DRUG & CHEMICAL MARKETS)

Denver, Col., July 23.—The American Institute of Chemical Engineers in session here from July 15 to 17, listened to an address by Dr. Charles L. Rees, former chemical director of E. I. du Pont de Nemours & Co., on "Dyes and Explosives." Among the 200 engineers who attended were F. W. Frerichs, St. Louis, treasurer; John C. Olsen, Brooklyn Polytechnic Institute, secretary; H. C. Parmelee, editor "Chemical and Metallurgical Engineering"; Henry Howard, Cleveland; M. C. Whitaker, president United States Industrial Alcohol Co.; E. R. Weidlein, director of the Mellon Institute, and W. R. Whitney, director of General Electric Company's research laboratories, Schenectady, N. Y.

Entertainments for the visitors included inspection trips through the leading industrial plants and mines in the western states and a trip to the Pacific Coast at the close of the convention.

# DAVISON ACID TANKS EXPLODE

(Special to DRUG & CHEMICAL MARKETS)

Baltimore, July 23.—Twelve men were severely burned and hundreds forced to flee for their lives when two sulfuric acid tanks, containing thousands of gallons, burst at the Davison Chemical Co.'s plant near Baltimore, on Friday, July 18. Among the injured are William Huntington, Jr., son of the vice-president of the company, employed in the experimental department; James McCredy; and George Schlatter, chief engineer of the plant. Six or eight men from the Coast Guard station at Cabin Beach were also burned and jumped overboard to escape more serious injuries.

The tanks exploded while the employees of the plant and Coast Guard volunteers were fighting fire underneath the acid chamber. About 400 gallons of acid were destroyed. Total loss \$15,000.

# BONE FERTILIZER WANTED IN FRANCE

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Paris, July 12.—Demand for bone fertilizers is active, particularly for bone powder the supply of which hardly suffices to cover the orders received. Degelatinized bone powder is now quoted francs 43 per 100 kilograms. The slack season rebate for scoria has now been withdrawn, but a great part of the autumn requirements appears to have been booked at the reduced summer prices. It is probable that the new season's quotations will be the same as last year, namely francs 0.95 per unit of phosphoric acid. Large orders have been placed on this basis for delivery during the latter part of the year.

# BURNETT ENTERTAINS CHEMICAL GOLFERS

A dozen representatives of Metropolitan chemical and alkali distributors were the guests of C. R. Burnett of American Oil & Supply Co., Newark, N. J., at an informal golf tournament held July 15 at the Forest Hill Field Club, Soho, N. J. A five-gallon can of motor oil, donated by Mr. Burnett, was won by H. W. Sherrell of Welch, Holme & Clark, New York, with a gross of 88. Ben Steele of New York also won a can of oil. Among those present were Messrs. Burnett, Dielemann, MacKelcan, Phillips, George, Steele, Sherrell, Upmann, Baldwin, Bode, Dunning, and MacNair.

Wholesale prices of chemicals and drugs during June declined below May and below June, 1923, according to the Bureau of Labor Statistics, Washington, D. C. The index number for June, 1924, was 126.6 compared with 127.3 for May, and 131.4 for June, 1923.

# MEXICO GETS LARGE SHIPMENT OF ACID

Other Heavy Chemical Exports Include Copper Sulfate, Cyanide, Caustic Soda and Borax

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., July 23.—Exports of sulfuric acid during May totaled 1,884,807 pounds, valued at \$24,549, according to the Department of Commerce. Of this acid, Mexico took the largest amount, with the second largest shipment going to Cuba.

Copper sulfate exports during May totaled 32,834 pounds, valued at \$2,027, and bleaching powder exports were 1,751,228 pounds, valued at \$26,296.

Exports of cyanide totaled 176,464 pounds, valued at \$26,230; borax 3,996,169 pounds, valued at \$195,920; soda ash 1,811,960 pounds, valued at \$48,521; silicate 3,057,561 pounds, valued at \$28,333.

Exports of sal soda during May totaled 1,031,246 pounds, valued at \$15,794; caustic soda 6,237,549 pounds, valued at \$213,135; bicarbonate 1,822,544 pounds, valued at \$35,746; other sodium compounds 8,319,017 pounds, valued at \$166,256.

# NITROGEN OUTPUT EXCEEDS NITRATE

In a period of less than 20 years the world's production of nitrogen compounds from the free nitrogen of the air has developed from laboratory demonstrations to an industry with an active annual capacity of more than 550,000 tons of fixed nitrogen per year and an actual production last year of more than 400,000 tons, says "Commerce Reports."

If converted into Chilean nitrate, this output would amount to about 2,565,000 tons, which is more nitrate than Chile exports per year; or if converted into ammonium sulfate, the output would be 1,940,000 tons, equivalent to the sulfate recovered from 155,000,000 tons of coal coked in by-product ovens. The air-nitrogen industry, however, has by no means attained full development.

The potential market for nitrogenous fertilizers is so enormous that the expansion of the air-nitrogen industry will apparently be limited only by its ability to produce fixed nitrogen at less cost than the value of the increased crop yield secured by use of such fertilizers.

# FRENCH SULFATE OF AMMONIA SCARCE

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Paris, France, July 12.—The sulfate of ammonia market is comparatively busy, the English prices for imported sulfate having been reduced considerably, while both French production and imports from Germany are steadily rising. The summer reduced prices quoted by cyanamide producers had the effect of clearing out all the stocks of this fertilizer which had accumulated in the factories, with the result that it is only procurable today from brokers.

Business in crude ammonia is steady. The peak of consumption is reached in August, and most requirements for that date have been covered. Present quotations are francs 3.40 per unit of azote. Potassium salts are in good demand, buyers desiring to profit by the rebates granted during July.

The Bureau of Supply, Treasury Department, will take bids until July 25, for 1,600 lbs. sodium chloride and 6,200 lbs. sodium cyanide as specified in Circular 179.

The supply of chlorine for water treatment at Havana, where 200 cases of typhoid are reported, has been exhausted.



## The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, pages 264-266

### IMPORTED COPPER SULFATE DECLINES

Spot Goods at 4c Even—Domestic Still \$4.40 Inside—  
—Resale Oxalic at 9½c Spot—Cutting in Imported  
Permanganate—Potash Caustic Cheaper Spot Than  
for Shipment—Domestic Manufacturers Maintain  
Prices

### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced		Declined	
No Advances			
Acid Oxalic, resale, ¼ lb.	Potash Permanganate, Imp., ¼ lb.		
Calcium Arsenate, ½ lb.	Potash Caustic, Imp., ¼ lb.		
Copper Sulfate, resale, 10c cwt.			

### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acetic Acid, Glacial....lb.	\$1.11	\$1.11	\$1.11	\$1.234	\$1.194	\$1.07
Sulfuric Acid, 66 deg. ton	14.00	14.00	14.00	15.00	\$5.00	20.00
Ammonium Sulfate, 100 lbs.	2.50	2.50	2.60	3.15	7.50	2.65
Bleaching Powder, 100 lbs.	1.90	1.90	1.90	1.75	9.30	1.50
Copper Sulfate, c/100 lbs.	4.40	4.30	4.65	5.60	20.00	4.30
Potash Caustic, Imp....lb.	.06¼	.06¼	.06¼	.07¼	.87	.08
Soda Ash, 58 p.c. .100 lbs.	1.94	1.94	1.94	2.00	3.50	.60
Caustic Soda, 76 p.c.100 lbs.	3.66	3.66	3.66	3.70	9.50	1.42
Potash Caustic, Imp....lb.	.06¼	.06¼	.06¼	.07¼	.87	.08
Sodium Prussiate, Imp.lb.	.09¼	.09¼	.09¼	.16	1.25	.18
Average .....	2.886	2.892	2.912	3.162	10.79	2.99

Although domestic producers of industrial chemicals are maintaining prices with considerable more firmness than was apparent a month ago, resellers and importers are cutting under on a number of items and taking the business. Some domestic products are moving at the higher levels, as buyers insist upon American goods. Based on current replacement prices, and anything which has been quoted from abroad for some months, it is difficult to see how importers can sell at the prices which they are doing in many instances. The logical conclusion appears to be that they are taking losses to move their stagnant stocks. Practically all the firmness in undertone which still exists in spite of cutting in various products, is being supplied by makers and the big importing establishments.

**Acid Acetic**—Routine deliveries, mostly on old contracts, taking place at unchanged prices. Makers quote \$3.12@3.27 hundred for 28%; \$5.85@6.00 for 56%; \$11.01@11.76 for glacial. Acetate lime position looks to firmness, particularly next Fall.

**Acid Formic**—Remains unchanged at 12½c lb. for spot 85% acid from importers; 90% at 13c. Demand light.

**Acid Oxalic**—Spot goods from resellers offered at 9½c lb. casks. Makers still quote openly at 9¾c inside for bbls. Demand has been slow and competition very keen during the past fortnight. Up to 10c lb. is quoted for smaller quantities.

**Acid Sulfuric**—Shipments on contract are routine only, and thus far in July are reported smaller than June, as might be expected for a mid-summer month. Prices are unchanged at \$14.00 ton for 66° tanks works. No great surplus of this grade exists. For 60° \$9.00@ \$10.00 is named. Carboys 66 at \$1.25@1.75 hundred as to quantity. Oleum in tanks works at \$17.00.

**Alums**—All prices appear well held without shading. Spot domestic potash alum at 4¼c with imported at 3c unchanged. Makers name 3½c@3¾c lb. for ammonia lump.

**Arsenic**—The resistance to price shading is still ap-

parent. Most sellers quote 8c lb. for three or five cases. Large lots, twenty-five packages up, can be had at 7¾c lb. spot. One lot of sixty cases is held at 7¾c for all or none, but with the closing out of this lot, nothing under 7¾c is openly talked of. For the size orders passing today, 8c is unquestionably the market. The steadiness of values holds in the face of continued limited demand.

**Barium Compounds**—Chloride is quoted unchanged at last week's reduction to \$78.00 ton spot. Barium carbonate is held at \$60.00 without change. Nitrate at 8½c spot.

**Bleaching Powder**—Prices firmly held, and from present indications, will pass the Summer without any price cutting. Production has been held in hand by most makers, who were anxious to prevent a repetition of last Summer's debacle. Demand is routine and prices steady at \$1.90 large drums in cars, \$2.15 for small drums. Less cars at \$2.30 up as to quantity.

**Calcium Arsenate**—Although the prospects for southern prosperity on good cotton prices this year are great, purchases of calcium arsenate continue small. Reports indicate larger numbers of weevils showing, and expected average crop damage. Prices, however, continue weak at anything from 9½c up to 10½c lb. delivered southern points, as to quantity and seller.

**Chlorine**—Little spot buying, most deliveries being on contracts. Prices unchanged at 4¼c lb. tank cars; 5½c cylinders in carlots; 6½c less cars; 7½c less tons lots.

**Copper Sulfate**—Weak holders of imported spot goods are naming 4c flat. From this level, up to \$4.20 is asked, as to quality, quantity, and seller. Domestic makers quote \$4.40@4.55 hundred as to brand and quantity. Demand has continued steady for agricultural use, although competition from imported material has been very keen.

**Copperas**—Continues easy without change in price. Bags at \$18.00 ton; barrels \$20.00. Bulk goods \$15.00 ton works.

**Carbon Tetrachloride**—Competitive pressure still holds prices at sub-normal levels. Drums at works openly named 6¼c lb. with sales reported at 6¼c.

**Glauber's Salt**—Steady at 85c@90c hundred for spot imported material as to seller. Domestic quiet at \$1.20 hundred up.

**Potash Caustic**—Cheaper on spot than abroad for shipment. New York named at 6½c@6¾c lb. for imported as to seller. Nothing under 6¾c laid down for shipment. Some spot sellers bullish on future and refusing to shade 6¾c. Demand small and competition keen. American maker at 7¼c unchanged.

**Potash Carbonate**—Unchanged and dull at 5¼c@5½c lb. for 80-85; 5¾c@6c for 90-95.

**Potash Permanganate**—Spot imported goods sold this week at 13½c. American producer quotes 14c lb., but reported to have taken some business at 13¾c. Permanganate continues weak and prices are under pressure. A big buyer is reported to have taken a large quantity out of the market this week under 13c. This, however, was for a special lot, and cannot be duplicated.

**Prussiates**—In spite of a slightly easier shipment posi-



tion for yellow soda prussiate at 9c delivered New York, spot price holds inside at 9½c lb. In fact, the spot market has lost none of its last week's firmness. Yellow potash prussiate is generally named at 18½c spot, although some 18c material is still available. Red potash is 37c up as to seller and quantity for spot goods unchanged. Entire prussiate situation appears firmer.

**Soda Ash**—Deliveries are continuing small owing to the season. Fair demand for less carlots with prices firmly maintained by distributors. Less cars in bags, from \$2.04 for more than five bags; \$2.29 for more than five bbls., both delivered in metropolitan area. Contract 200 or 300 lb. bags cars works \$1.38 unchanged. Rumor has it that producers have confidentially stated that production costs will make higher 1925 alkali contract prices imperative.

**Soda Caustic**—Unchanged and quiet. In much the same position as ash. Prices on contract 76% solid drums works cars \$3.10; ground and flake \$3.50. Less cars, 5 drums up, solid \$3.76; flake, \$4.16, delivered in metropolitan area.

#### Metals

Following advances in the London market, copper advanced locally to 12½¢@12¾¢ lb. for electrolytic. Lead market maintains a fairly steady tone with prices unchanged at 7c lb. N. Y., and 6¾¢ lb., East St. Louis. Tin prices have advanced to 48½¢ lb. for Straits, and 48c lb. for standard. Zinc has advanced 5 points to 5.90c lb., East St. Louis, and 6¼¢ lb., New York.

#### METHANOL EXPORTS IN MAY 60,651 GALS.

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., July 23.—Exports of acetic acid for May totalled 77,381 pounds, valued at \$8,288, according to the Department of Commerce. Exports of methanol, pure and denaturing grade, totalled 60,651 gallons valued at \$59,282, and exports of other alcohol, pure and denatured, totalled 51,518 gallons, valued at \$28,032.

May exports of acetate of lime totalled 3,248,745 pounds valued at \$105,398, while exports of formaldehyde totalled 114,351 pounds, valued at \$15,907.

Howard Field Chappell, sixty-three years old, formerly vice-president of General Chemical Co., died July 17, at the Lorraine Hotel, 2 East Forty-fifth st., after a short illness. He retired several years ago. Mr. Chappell was born in St. Louis and was educated at Chicago Academy and the Sheffield Scientific School, Yale University, where he was graduated in 1881. After completing his studies at Hanover, Fribourg and Berlin, he joined his father, William Henry Chappell, in the organization of Chappell Chemical Co., Chicago. He assisted in the organization of General Chemical Co.

"Chemical price changes have been of minor interest and we anticipate no fluctuations of any account unless an unexpected demand should arise causing a shortage due to producers running too close, this again being due to buyers' inability to properly gauge future needs," according to Roessler & Hasslacher Chemical Co., New York, makers of heavy and fine chemicals.

Southern Maryland Fertilizer Works, a newly organized company, will operate at Waldorf, Md. The company has an authorized capital stock of 2,000 shares of preferred, par value \$25, and 5,000 shares of common, of no par value. The incorporators are Albert J. Bayle, Henry B. Frere, and L. Dorsey Stone.

Indian River Fertilizer Co. has been incorporated for \$250,000 at Vero, Florida, and will build a factory with daily capacity of sixty tons of fertilizer for the first unit.

#### NEW INSECTICIDE ASSOCIATION FORMED WITH E. T. TRIGG AS PRESIDENT

First Meeting Held at Hotel Pennsylvania, New York—Association to Develop Wider Markets for Farm Fungicides and Insecticides—Plan Stabilization of the Industry

A new national insecticide organization was formed at a meeting of American manufacturers on July 15 at the Hotel Pennsylvania, New York, to be known as the Agricultural Insecticides and Fungicides Manufacturers' Association. Ernest T. Trigg of John Lucas & Co., Philadelphia, who acted as chairman of the meeting, was elected president of the association for the ensuing year. The depression in the insecticide business for some years past was the primary factor behind forming the new organization, which will lead its efforts to developing greater uses and markets for farm insecticides and fungicides, and to stabilizing the industry. Besides Mr. Trigg, the following officers were elected: T. S. Grasselli, of the Grasselli Chemical Co., Cleveland, vice-president; Harry J. Schnell, "Oil, Paint & Drug Reporter," treasurer; W. B. Cragin, of the General Chemical Co., New York, secretary; on the executive committee, R. N. Chipman, Chipman Chemical Engineering Co.; W. B. Cragin, General Chemical Co.; H. S. Parsons, Nitrate Agencies; E. S. Phillips, Devoe & Reynolds Co.; W. H. Rose, Interstate Chemical Co.; W. H. Simpson, Riches, Piver Co.

Those present at the meeting included the following: Ernest T. Trigg, John Lucas & Co.; George M. Martin, Sherwin-Williams Co.; R. N. Chipman, Chipman Chemical Engineering Co.; A. D. Joyce, Glidden Company; T. S. Grasselli, Grasselli Chemical Co.; A. B. Ansbacher, A. B. Ansbacher & Co., Inc.; W. H. Rose, president, Interstate Chemical Co.; W. H. Simpson, Riches, Piver Co.; Cornelius Vreeland, Kiltone Co.; E. S. Phillips, Devoe & Reynolds Co.; James Thompson, Niagara Sprayer Co.; E. V. Peck, Devoe & Reynolds Co.; Mr. Kent, Grasselli Chemical Co.; Arthur S. Somers, F. L. Lavanburg & Co.; F. Brocker, Stratford Chemical Co.; E. B. Osborne, Stratford Chemical Co.; P. J. Krauss, Interstate Chemical Co.; J. P. Hennessey, Standard Chemical Co.; George Riches, Bowker Chemical Co.; Alvah Blanchard, James A. Blanchard Co.; W. J. Deitsch, Standard Chemical Co.; George Ashworth, Dow Chemical Co.; A. E. Holst, Sherwin-Williams Co.; G. R. Cushman, Riches, Piver Co.; J. R. Banks, Nitrate Agencies; H. S. Parsons, Nitrate Agencies; V. D. Carabba, Gulf States Fertilizer Co.; Alex. Joseph, Pfeiffer Color Co.; Alex. Goulard, John Lucas & Co.; W. B. Cragin, General Chemical Co.

More than 500,000,000 pounds of explosives of all kinds were produced in this country last year, according to a statement by George King, president of the Institute of Makers of Explosives, who says: "Many people link up explosives and war in the same breath, but as a matter of fact the explosives being manufactured today in the United States, such as blasting powder and dynamite, have no place in war. Many years ago black powder, as distinguished from dynamite, was used in large quantities for war, but its place as a propellant has been taken by smokeless powder. Blasting powder has now been turned to peace-time work and it is one of the key products on which many lines of industry rest."

Union Carbide Co., New York, through its subsidiary companies, Linde Air Products Co. and Prestolite Co., will erect two carbide manufacturing plants at Houston, Texas. They will be equipped to manufacture acetylene gas and oxygen.

## The Intermediate and Dye Market

Current Spot Quotations for Intermediates, see Chemicals, page 264.

### MAKERS CUT PHENOL PRICES

**New Basis 24c in Large Drums—Lack of Demand Develops Weakness—Little Buying of Benzol or Toluol—Short Stocks Keep Prices From Dropping—Market Generally Inactive**

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced  
No Advances  
Declined  
Phenol, 1c lb.

	Trend of the Market					
	Today	Last Week	Last Month	Last Year	War Peak	Pre. War
Benzene, pure .....gal.	\$.24½	\$.24½	\$.24	\$.27	\$1.10	\$.25
Naphthalene, flake .....lb.	.05¼	.05¼	.05¼	.07¼	.16	.03
Phenol, Spot .....lb.	.25	.26	.28	.37	1.50	.08
Toluene .....gal.	.26	.26	.26	.29	..	..
Aniline Oil .....lb.	.16	.16	.16	.16	1.40	.10½
Alpha-naphthylamine .....lb.	.35	.35	.35	.35	1.28	..
Benzaldehyde .....lb.	.70	.70	.75	.75	..	..
Betanaphthol .....lb.	.26	.26	.26	.22	1.50	.08
Dimethylaniline .....lb.	.35	.35	.36	.41	1.30	..
Paranitroaniline .....lb.	.68	.68	.70	.73	1.58	.18
Average .....	0.331	0.332	0.341	0.372	..	..

The market sank into real Summer dullness during the past week. Absences of leading factors in the intermediate and crude business from their offices gave evidence of the futility of attempting to interest consumers at this time of the Summer. Sellers admit that they have little or no hope of any real pick-up in buying prior to the middle of September. They do believe, however, that a general resumption of industrial operations will take place in the Fall, and stimulate the demand for raw materials. Among the crudes, benzol, toluol, and other solvents represent the strength of the market. Shortage of stocks sustains prices in the face of small demand. Leading makers have cut phenol prices on reduced demand. Outside of a small jobbing demand for naphthalene, movement of goods is almost absent.

#### Crudes

**Benzene**—Strong position is still maintained in spite of odd lot sales of pure during the week at 24c gal. in tank cars; drums 29c. Most quotations are heard at 24½c up to 25c gal. Production is still curtailed as result of steel trade inactivity, the fifty per cent estimate of last week still representing the estimated output this week. It is this short production and also short stocks, which are holding prices at current levels. Sellers admit that without a shortage, prices would be down two or three cents already. Price for 90 per cent benzol is unchanged at 23c gal. tanks.

**Cresylic Acid**—Heavy offers are noted with demand continued dull. High grade pale acid, that is material which has been imported as is and not redistilled, is quoted at 68c@70c per gallon for 98-99. Plenty of pale acid is available on spot at 63c and 65c gal. as to seller and quantity. Dark acid is held at 60c gal. spot drums unchanged. Buyers do not appear interested in cresylic at any price just at the present time. Cresol U.S.P. at 56c c.i.f. from English makers.

**Naphthalene**—Inactivity has overshadowed the weakness of the market. Demand is at a standstill and stocks in numerous quarters are still topheavy. Sporadic small-lot buying for drug trade use is noted occasionally, but this business has to a great extent

passed. Prices are very cheap, but this seems to make no difference to purchasers. Flake is quoted at 5c and balls at 5½c works or spot. Chipped is down to 4½c. On firm business, sellers would probably shade these figures in view of the current weakness.

**Phenol**—Competition and absent demand have forced the softness of last week's prices to develop into an actual reduction by makers. Business has been very dull during the past three or four weeks, and has permitted an accumulation of stocks. Prior to that time, surplus goods were limited, and only small demand checked an upward movement of prices. The larger offers of phenol are now quoted by makers, and some by resellers, at 24c lb. in 1,000 lb. drums at New York or works; 25c in 250 lb. drums; and 26c. in hundreds.

**Pyridine**—Price for shipment is still held at \$3.75 gal. On spot, the position continues somewhat weaker as demand remains dull. Offers at \$3.70, \$3.80 and \$4.00 gal. have been heard, but interest is not very keen at this time. Market abroad is easier.

**Solvent Naphtha**—Position remains stationary. Stocks are still small, but demand also remains in the same class. Price is 25c gal. tanks and 30c for drums.

**Toluene**—Slightly larger quantities are coming out of one or two mills, but not enough to make any material difference in the market. Any buying would find the market practically bare of stocks. However, buying is still conspicuous by its absence, and prices mark-time. Tanks are 26c at mills, and drums 31c in cars.

**Xylene**—Reflect the dullness of all light oil distillates. Commercial held at 26c tanks unchanged; ten degree at 30c@35c, tanks and drums; five degree was 38c@40c tanks, 43c drums; nitration 40c@45c gal.

#### Intermediates

**Acid Anthranilic**—Technical held at 90c up to 94c lb. as to seller; refined at \$1.00 lb. unchanged.

**Acid H**—Demand for small lots only at 72c to 74c lb.

**Acid Neville and Winthers**—Routine lots moving at \$1.05@1.10 lb. from makers. Price steady.

**Aniline Oil**—Basic situation unchanged. Drums from 16c@17c lb. spot and works. With pick-up in general industry in Fall, larger supplies of benzol may bring lower prices and be reflected in aniline. At present, the outlook is firm.

**Anthraquinone**—Demand is close to a standstill as far as large lots are concerned. The price is held by makers at \$1.00 up to \$1.10 lb. as to seller and quantity.

**Benzaldehyde**—Routine inquiry has been steady with goods moving in fair volume for this time of year. Price for technical in drums holds at 70c to 75c lb. works; chlorine free at \$1.60 lb.

**Beta-Naphthol**—Spot technical goods held at 24c lb. in cars from makers but demand has been dull. Less cars from 26c up as to quantity. Outside offers are fewer, and little shading is reported.

**Dimethylaniline**—No change in price or demand. Quiet with occasional sales at formerly quoted levels, 35c lb.

**Para-Nitroaniline**—Para is still available at 68c lb. but with small inquiry. Makers report their prices at 70c @72c lb.

## FOOD COLORS IN DEMAND IN JAPAN

The consumption of coal tar food colors in Japan has increased 100 per cent during the last two years, the average monthly importation having increased from 700 pounds in 1922 to 1,650 pounds during the first four months of 1924, writes Consul General N. B. Stewart, Tokyo. German coal tar food colors were once preferred to the American products in Japan, for the reason that they were obtained for about one-third of the cost of American colors. Recently, however, a more strict enforcement of the Japanese pure food regulations has caused a number of firms to use American and English colors in preference to the inferior German makes which do not, in all respects, comply with the Japanese pure food regulations.

The food colors imported mostly are red, pink, orange, blue, green, and violet. The various shades of red are used to the greatest extent, while chocolate and coffee colors are used in smaller quantities. Practically all coal tar colors received are in either paste or powder form. The powder colors are used when it becomes necessary to subject them to a very high degree of heat, as in the manufacture of candy, while the paste colors are used in frostings and fancy pastry. The prices per pound paid by local manufacturers for powdered colors range from 5.00 yen (\$2.40) to 40 yen (\$19.94). Prices per pound for paste colors range from 7 yen (\$3.49) to 50 yen (\$14.93). These prices include import duty.

Article 243 of the Import Tariff of Japan, places a 35 per cent ad valorem duty on coal tar food colors.

The British Government has been pressed in Parliament to disclose the terms of the proposed agreement between British Dyestuffs Corp. and Interessens Gemeinschaft, but so far has refused to make them public. Meanwhile, consumers, merchants and British dyemakers are protesting against a monopoly being given to British Dyestuffs Corp. It seems likely that the agreement between the two concerns will be completed, but whether Parliament will ratify it, is another matter. In view of the very strong and continued protests being made it is doubtful.

The Fall Style Show of the National Garment Retailers' Association will feature three colors: Russet for afternoon wear, Venetian fuchsia for evening wear, and shutter green for coatings. The colors were selected by a special committee of the association in conjunction with the Textile Color Card Association of the United States, Inc. A special color card containing the three shades was prepared.

Publication of the output of individual German dye plants by the United States government is meeting objection in Germany, where the claim is made that it constitutes a violation of the agreement with the Reparation Commission. The Germans contend that when the several governments publish their dye figures, care is taken not to give out the individual output of each plant.

Frank A. Anderson, formerly with Spencer Kellogg & Sons since 1907, has become Western sales manager for the Imperial Color Works, Glens Falls, N. Y., in charge of the San Francisco branch.

Joseph S. Vila, Philadelphia, announces the removal of his laboratory for matching shades to 219 Sansom st., where he will continue to handle aniline colors and dyestuffs.

Stanley Jordan & Co., New York, have been appointed exclusive agents in United States and Canada for A. de Laborerie, Paris, manufacturers of fine mineral colors.

## NO AMERICAN DYES SOLD IN SCOTLAND

The production of coal-tar crudes in Scotland is carried on to a limited extent at a chemical plant in Aberdeen and at the gas works of some of the cities and towns, but there is no manufacturing of intermediates and dyestuffs in the vicinity of Dundee. The chemical works in Aberdeen produce benzol, toluol, and naphthalene, and although they formerly manufactured phenol and cresol, the higher distillation products are now sold in the crude state to manufacturers in England. The firm likewise markets solvent naphtha as do other institutions in Burghead, Elgin, Inverness, and Perth, writes Consul H. A. Johnson, Dundee.

Although no dyestuffs are produced, their consumption is quite extensive, as large quantities are required for the coloring of jute goods, such as burlaps, Hessian cloths and carpets, the manufacture of which is carried on in Dundee on a large scale. The 60 manufacturers of jute goods are the most important consumers of dyes. The largest purchasers of dyestuffs are two finishing mills that are engaged solely in the dyeing of garments. Their requirements include practically the entire range of colors, basic, acid, direct, mordant, chrome, vat and sulfur dyes. They use chiefly basic, direct, and sulphur dyes, and dyes of the direct series are probably most important, a large finishing mill at Perth consuming about 20,000 pounds annually.

Supplies are generally purchased direct from the manufacturer, except in cases where foreign dyes are desired, when the business is transacted through manufacturers' agents. German and Swiss producers are represented in the Glasgow vicinity, but there are no agents in Dundee. The bulk of the dyes consumed locally are of British origin, but Swiss dyes, and to a smaller extent German dyes, find some use.

American dyes are practically unknown in the local market, but, quality being equal, price is the governing sales factor.

## COMPETITIVE DYE MISNAMED

Editor, DRUG & CHEMICAL MARKETS:

We note in your article "New Dyes made in United States", that you mention our Fast Light Yellow G 3X as being competitive with Kition Fast Light Yellow 2G. This should be Xylene Fast Light Yellow 2G.

PHARMA-CHEMICAL CORPORATION

New York, June 25, 1924.

Thomas W. Delehanty, Assistant Chief, Chemical Division, Department of Commerce, Washington, spent last week in the chemical trade in New York City. This week he has been on a motor trip through New York State to Niagara Falls, stopping at various chemical plants en route. He will return to Washington July 28. Mr. Delehanty is the author of the recently published survey of the German dye industry.

The Home Bleach & Dye Works of Attleboro, Mass., reports to the Secretary of the Commonwealth of Massachusetts accounts receivable \$22,326, and profit and loss \$188,765 on the debit side; and accounts and notes payable \$129,331, and reserve for depreciation \$180,762 on the credit side of the statement. Real estate and machinery are valued at \$799,581 and merchandise at \$78,621.

E. J. Brooks, formerly sales manager for J. S. Young & Co., Hanover, Pa., is now associated with the Newbert Color Co., Woolworth bldg., New York. This company acts as exclusive selling agents for Taylor White Extracting Co., Camden, N. J., manufacturers of dyewood extracts for both the textile and tanning trades.



# The Oil Market

Current Spot Quotations of Oils, Tallows, Greases, page 283

## LINSEED OIL ADVANCED BY CRUSHERS

Higher Seed Prices Cause General Firmness—China-wood Oil Higher—Coconut Oil Steady—Corn Oil Advances Following Further Strength in Cottonseed Oil—Lard and Other Animal Products in Strong Position—Refined Menhaden Oil Steady

### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Castor Oil, No. 1, bbls., 1c lb.	Menhaden Oil, light strained, 1c gal.
China-wood Oil, spot, N. Y., 1/2c lb.	Lard, prime, bbls., 1/2c lb.
Fwd. ship'ts., arr. N. Y., 1/2c lb.	Compounds, bbls., 1c lb.
Corn Oil, crude, tks., 1c lb.	Lard Oil, all grades, 1/2c @ 1 1/2c lb.
Cottonseed Oil, crude, tks., 1/2c lb.	Neatsfoot Oil, extra, bbls., 1c lb.
P. S. Y., N. Y., 1/2c lb.	Oleo Oil, all grades, 1c lb.
Grease, choice white, 1/2c lb.	Sesame Oil, edible bbls., 1c lb.
Linseed Oil, all grades, 4c gal.	Stearine, oleo, bbls., 1/2c lb.

### Declined No Declines

Trend of the Market		Last		Last		War		Pre.	
Today		Week		Month		Year		Peak	
Cod Oil, N. F. .... gal.	\$ .60	\$ .60	\$ .64	\$ .65	\$ 1.26	\$ .36	\$ .36		
Degras, American, bbl. lb.	.04 1/4	.04 1/4	.04 1/4	.04 1/4	.23	.03 1/2	.03 1/2		
Lard, No. 1 ..... gal.	.84	.81	.79	.79	2.90	.92	.92		
Menhaden, crd., bbls., gal.	.40	.40	.50	.48	1.20	.33	.33		
Neatsfoot, 30 deg. ct. gal.	1.46	1.46	1.46	1.25	3.45	.95	.95		
Red Oil, distilled ..... lb.	.09	.09	.09	.09 1/2	.17	.07	.07		
Stearic Acid, T.P. .... lb.	.13 1/4	.13 1/4	.13 1/4	.14 1/2	.33	.12	.12		
Coconut, Ceylon, bbls. lb.	.10	.10	.09	.09 1/2	.90	.14	.14		
Cottonseed, crude, tks. lb.	.10 1/2	.10 1/2	.09 1/2	.10	.25	.08	.08		
Linseed, carlots ..... gal.	1.00	.96	.94	1.00	1.88	.87	.87		
Olive, denatured ..... gal.	1.21	1.21	1.21	1.10	4.50	1.05	1.05		
Peanut, refined ..... lb.	.15 1/4	.15 1/4	.15 1/4	.16	.30	.08	.08		
Soya Bean, bbls. .... lb.	.12	.12	.12	.12	.19 1/2	.07	.07		
Average .....	0.482	0.476	0.481	0.464	1.30	0.362	0.362		

Although the general list of miscellaneous oils is in a stronger position than it has been for many weeks past, demand from consuming quarters continues to be confined to conservative buying policies which have characterized the market heretofore. The general sentiment on the part of sellers, however, is decidedly optimistic and, with prices advancing consistently, the market maintains a firm undertone. With the exception of animal oils where the increasing export demand from Holland and England is causing prices to mount, the strength is generally due to primary conditions affecting the various oils. Transportation difficulties and other bullish reports from China have caused higher prices in China-wood oil which is accompanied by slight improvement in demand. Linseed oil advanced sharply during the week because of the advancing seed prices in the Duluth, Winnipeg, and Buenos Aires markets. Cottonseed oil has been selling on higher levels and following the announcement of the Government report on the cotton crop last Monday the market has strengthened further.

### Vegetable Oils

**Castor Oil**—Sellers have advanced the price of No. 1 to 16 1/2c@17c lb., and No. 3, to 16c@16 1/2c lb. due to strength of the castor bean. Demand continues active.

**China-wood Oil**—Further advances have taken place during the week following reports of transportation difficulties in China. Spot oil is quoted 14 1/2c@15c lb., and futures, arrival N. Y., are quoted 14 1/2c@14 3/4c lb. in bbls. Market maintains a firm tone.

**Coconut Oil**—Continues in fairly steady position both locally and at the coast with demand showing improve-

ment. Ceylon oil is quoted 9 1/2c@10c lb.; Cochin, 10c lb.; Manila, 8 1/2c@8 3/4c lb.

**Corn Oil**—Further advances have taken place following strength in the cottonseed oil situation. Crude oil is quoted 10 1/4c@10 1/2c lb., and 12c lb. in bbls., N. Y. Demand continues fairly steady.

**Cottonseed Oil**—Market has developed further strength during the past week and, following the announcement of the Government report on the cotton crop, P.S.Y., oil sold as follows: July, 12.25@14.00; Aug., 12.11@12.20; Sept., 12.00@12.10; Oct., 11.07@11.09; Nov., 10.15@10.24; Dec., 9.85@9.95; Jan., 10.00@10.01; Feb., 10.00@10.20. Crude oil is quoted higher at 10 1/4c lb.

**Linseed Oil**—Advancing seed prices in the Duluth, Winnipeg, and Buenos Aires markets have caused crushers to advance prices 4c per gal. Market continues in strong position with demand showing improvement. Sellers are now quoting \$1.00 gal. in carlots, and \$1.03 gal. less than carlots. London linseed oil is quoted 41s, with Antwerp, 37 1/2 per 100 kilos. Duluth markets opened the week at \$2.44 for July; Sept., \$2.30; Oct., \$2.27. Winnipeg, July, \$2.32 1/2; Oct., \$2.23; Dec., \$2.18. Buenos Aires firm at \$1.97 1/2.

**Olive Oil**—Market maintains a fairly steady situation with prices unchanged at last week's levels. Denatured oil is quoted \$1.20@\$1.22 gal. with edible quoted \$2.00 @ \$2.25 gal.

**Palm Oil**—There has been no feature of importance in the market during the week and prices are maintained at last week's levels. Niger oil is quoted 7 1/4c@7 1/2c lb. with Lagos, 7 1/2c@7 3/4c lb.

**Rapeseed Oil**—Market remains firm at advances reported last week. A better inquiry is reported and sales noted at 83c gal. in bbls., N. Y.

**Sesame Oil**—An improvement in demand has been reported although the volume of business continues limited. Price of edible oil in bbls. is quoted 12 1/4c@12 3/4c lb.

**Soya Bean Oil**—Although the volume of business during the week has not been large, the market maintains a steady tone. Crude oil is quoted 12 1/4c@12 1/2c lb. in bbls., N. Y.

### Animal Oils

**Greases**—Producers have again advanced the price of choice white grease to 10 1/2c@10 3/4c lb. Demand continues active for all grades. Brown grease is quoted 6 1/2c lb.

**Lard**—Further advances have taken place during the past week and producers are now quoting 13 1/2c@13 3/4c lb. for prime steam in bbls., and 14c lb. for compounds.

**Lard Oil**—Following advances in lard and with a fairly active demand, prices have advanced. Edible prime is now quoted 15 1/2c lb., with No. 1 at 11 1/4c lb. in bbls.

**Neatsfoot Oil**—Producers have advanced the price of extra to 11 1/4c lb. in bbls., N. Y. Demand continues fairly active from abroad.

**Oleo Oil**—Producers have advanced all grades. No. 1 is quoted 14 1/4c@14 1/2c lb. and No. 3, 11c lb.

**Red Oil**—Continues in strong demand with prices well maintained at former levels. Distilled is quoted 8 3/4c@9 1/2c lb. in bbls., and 8c lb. in tanks.



**Stearine Oleo**—Market has strengthened further with demand from abroad active. Sellers are quoting 13½¢ @13¾¢lb. in bbls.

**Fish Oils**

**Cod Oil**—Improvement has been reported in the market during the week with demand for Newfoundland oil increasing. Prices continue unchanged with quotations of 58¢@60¢ gal. in barrels, N. Y., and 54¢@56¢ gal. in tanks, holding firm.

**Menhaden Oil**—Has been more active during the past week and prices have advanced 1¢ per gal. Light strained is quoted 56¢@58¢ gal. in bbls., N. Y., with yellow bleached at 58¢@60¢ gal. Extra bleached is quoted 60¢@62¢ gal. Very little interest has been shown for crude oil at 40¢ gal. in tanks, Baltimore.

**Sperm Oil**—Activity has increased and the market has a slightly firmer tone. Prices are unchanged with quotations of 89¢ gal. for 38 deg. c.t., and 84¢ gal. for 45 deg. c.t., holding firm.

**Naval Stores**

**Turpentine**—There has been little activity in the market during the week as prices, for the most part, are unchanged at last week's levels. Demand has improved since the week-end and reports from the Southern markets indicate a slightly better sentiment although the actual turnover has not been large. Sellers are quoting 84¢ gal., ex-yard, N. Y.

**Rosins**—Demand for most grades continues fairly steady and prices are unchanged at quotations reported last week. B is quoted \$5.55; D, \$5.65; E, \$5.75; F, G, H, I, \$5.80; K, \$5.85; M, \$5.90; N, \$6.10; WG, \$6.90; WW, \$7.60.

**Save-The-Surface Golfers of the Paint, Oil & Varnish Club of New York** held their monthly meeting at the Montclair Country Club, Montclair, N. J., July 16. L. Martin, of Chicago, was low with a gross score of 79. Frank C. Fuller, of New Jersey Zinc Co., New York, led the Class "A" golfers with a net of 74; Edwin Kuttroff, of Verona Chemical Co., Newark, N. J., Class "B" with a net of 67; and Alexander Joseph, of Pfeiffer Color Works, New York, Class "B" with net of 83. About thirty-five attended the meeting.

**Foreign Trade Bureau, Philadelphia Commercial Museum, Philadelphia**, has received an inquiry (No. 42,344) from a company at Havana, Cuba, in the market for American cottonseed oil, soya oil and other materials. Full information on application.

Recent additions to the sales force of the paint and varnish division of E. I. du Pont de Nemours & Co. include F. P. Crocker in Pennsylvania, and E. K. Nason in North Carolina. Mr. Nason was formerly in the Philadelphia office of the company.

The paint and varnish division of E. I. du Pont de Nemours & Co. will hold a convention of trade salesmen in the eastern territory at Philadelphia, July 31 and Aug. 1.

The Chief of Air Service, United States Army, Washington, D. C., will take bids until Aug. 4, for 65,000 gals. aero lubricating oil, as specified in Circular CAS 2.

E. V. Peters, sales manager of the New Jersey Zinc Co., New York, and president of the Paint, Oil & Varnish Club of New York, is on his annual vacation.

A fire which caused damage to the extent of \$10,000 visited the plant of Certain-teed Products Co., Richmond, Cal. on July 5. One fireman lost his life.

Smith & McCaffrey's soap factory, Lincoln, R. I., near Providence, was destroyed by fire of incendiary origin on July 13, with loss of \$30,000.

**DECLINE IN TURPENTINE CHECKED**

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Savannah, Ga., July 21.—The turpentine market closed firm at 77¾¢, compared with 79¼¢ for the week previous. The early part of the week 77¢ was quoted, but the decline has been checked. Receipts of turpentine for the week were 4,636 bbls.; sales reported, 1,126 bbls.; shipments, 4,554 bbls.; and stocks, 13,083 bbls. The rosin market closed firm, and the week showed about 2½¢ to 5¢ higher than the week previous. Receipts have been 14,725 bbls.; sales, 9,374 bbls.; shipments, 6,237 bbls.; and stocks, 101,752 bbls.

Jacksonville, July 21.—The turpentine market closed firm at 78¢. No sales. No bids. Offerings of 352 barrels unsold. Stocks are 17,134 bbls., and rosin 120,077 bbls.

**COTTONSEED OIL OUTPUT LOWER**

Cottonseed crushed in the eleven months from Aug. 1 to June 30, amounted to 3,285,102 tons, the Census Bureau announces, compared with 3,226,771 in the same period a year ago. Cottonseed on hand at mills, June 30, totaled 29,285 tons, compared with 13,536 a year ago.

Cottonseed products manufactured in the eleven month period and on hand June 30 were as follows:

Crude oil produced, 972,355,603 pounds, compared with 994,236,047 for the same period a year ago, and on hand 23,338,071 pounds, compared with 11,833,249.

Refined oil produced, 837,091,308 pounds, compared with 839,069,286; and on hand 172,534,924 pounds, compared with 190,442,987.

Leon Ma. Gonzales, Philippine Government commercial agent, New York, says the Philippine coconut oil industry is aroused by the campaign in certain parts of the United States to discriminate against this product. There is talk in the Philippines, he said, of retaliatory boycotts against the distinctive products of Sates which legislate against coconut oil. These attacks upon the most important item in the Philippine export trade, said Mr. Gonzales, are provoked by the dairy interests and are most insistent in the dairying States.

Officers of Davison Chemical Co., Baltimore, and of the Royal Dutch Shell Co. have formed Silica Gel Foreign Petroleum Corp. to refine petroleum products in all parts of the world outside the United States. The directors of the new company include J. B. August Kessler, William Carel de Leeuw and Frederick Godber, representing the Royal Dutch interests, and C. Wilbur Miller, Waldo Newcomer, Robert Garrett, Omar Hershey and Ernest C. Miller, representing Silica Gel and Davison Chemical interests.

The Foreign Trade Bureau, Philadelphia Commercial Museum, Philadelphia, has received an inquiry (No. 42,337) from a company in the Canary Islands desiring to purchase machinery for the manufacture of soap; also oils, greases and rosins for such production. An inquiry (No. 42,305) from a concern at Guayaquil, Ecuador, desiring machinery and materials for a proposed local vegetable lard manufacturing plant, to develop an output of 10,000 to 12,000 pounds per month. Full information on application.

E. F. Kelchner, formerly sales representative of Devoe & Reynolds in Bronx and Westchester Counties, New York, has been promoted to the position of traveling sales-manager, attached to the metropolitan division, New York branch.

## Chemicals for Consuming Industries

Heavy Chemicals, page 264, Tan and Dyestuff, page 284, Fatty Oils, page 283.

### CHEMICAL PRICES REMAIN STATIONARY

**Chemical Producers More Bullish on Outlook—Industrial Buying of Chemicals Still Very Limited—Summer Dullness Close to Complete Stagnation of Business—Inquiries for Fall More Frequent**

For all practical purposes, chemical prices were stationary during the past week. Such changes as did take place, were of minor importance and chiefly downward. The undertone of the chemical market, however, is decidedly firmer, and supported in this position by a more bullish attitude assumed by a number of leading producers. Big manufacturers admit that they have little hopes for better demand or higher prices for their goods during this month or next, but are looking to September-October. At the present time, industrial buying of chemicals is very limited, and indicates a Summer dullness close to complete stagnation of business. For Fall delivery and shipment, however, inquiries are reported more frequent, and quantities mentioned are larger than those asked for during the past six months. Having had their fill of low prices, there is no gainsaying the fact that with the slightest excuse, a rebound in values next Fall will be sharp.

### Agricultural Chemicals

	Trend of the Market					Pre.
	Today	Last Week	Last Month	Last Year	War Peak	
Acid Sulfuric, 66°.....ton	\$14.00	\$14.00	\$14.00	\$15.00	\$35.00	\$20.00
Ammonium Sulfate, 100 lbs.	2.50	2.50	2.60	3.20	7.75	2.65
Arsenic .....lb.	.08	.08	.08	.15	.18	.04
Copper Sulfate .....100lbs.	4.40	4.50	4.65	5.50	20.00	4.50
Paris Green .....lb.	.30	.30	.30	.30	.50	.11
Potash Muriate, 80%...ton	31.00	31.10	31.10	35.55	475.00	39.57
Potash Sulfate, 90%...ton	41.27	41.27	41.27	45.67	440.00	43.07
Phosphate Rock, 68%...ton	2.25	2.25	2.25	3.25	11.00	3.00
Phosphate, Acid, 16%...ton	7.50	7.50	7.50	9.00	21.00	15.00
Sodium Nitrate ....100 lbs.	2.37½	2.42½	2.60	2.50	6.00	1.90
Average .....	10.570	10.585	10.612	11.957	103.54	13.84

Firmness in nitrogen supplying materials, steadiness in copper salts, and uncertainty in other products, including arsenicals, has marked a quiet situation in chemicals for agricultural uses during the week.

**Ammoniates**—Prices are about the same as last week. Acid fish scrap at Baltimore holds at \$2.85@\$2.95 unit; dried scrap at \$3.25@\$3.50. Latest catch reports reverse former advices, and announce renewal of active fishing. Tankage, high grade, New York \$3.00; Chicago,

\$3.25 unit; firm. Bulk tankage, \$2.50 Chicago, \$2.65 New York. Cyanamid firm at \$2.00 unit, New York.

**Ammonium Sulfate**—Production is still reduced as a result of curtailed steel operations. Prices appear somewhat steadier, and producers quote \$2.50@\$2.55 hundred at works. Export demand routine at \$2.65 f.a.s. in double bags.

**Sodium Nitrate**—Spot crude material reported quoted \$2.37½@\$2.42½ hundred with stocks none too plentiful, but demand also rather quiet. Goods afloat also held at \$2.37½ for August arrival. Any heavy buying would soon clean out spot goods.

**Phosphates**—Acid phosphate generally held at \$7.50 hundred from producers without change.

**Potash Salts**—Quiet and steady. Demand slow. Prices unchanged at \$31.10 ton for 80% muriate; \$41.27 for 90% muriate; \$23.72 for 48% double manure salt; \$15.33 for 30% manure salt.

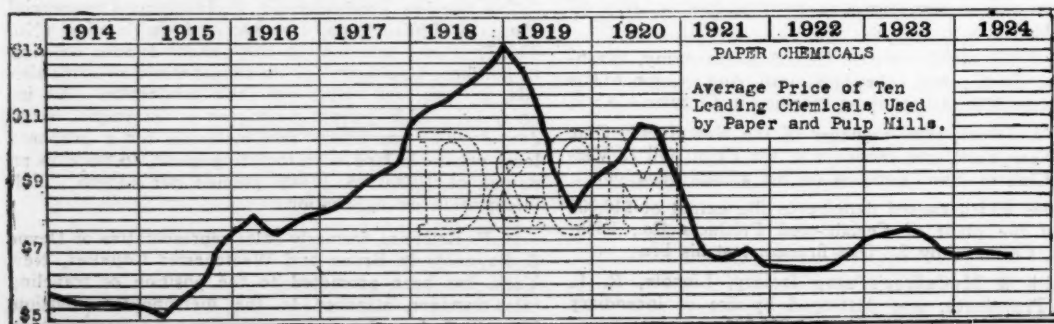
### Insecticides and Fungicides

**Arsenicals**—Calcium arsenate continues very weak and prices are still being shaded. Southern delivered prices range from 9½clb. up to 10½c for cars and less as to maker. The prosperity of the cotton district may yet have an effect on this item before the Summer is over. White arsenic is still quiet with most holders close to the 8c level. Some large lots available at 7¾c.

**Copper Salts**—Prices steady at last week's lower levels. Demand seems to keep up fairly well in spite of lateness of season. Wet weather reported responsible for heavier use this year. Domestic goods from makers \$4.40 up to \$4.55 hundred as to brand. Imported all the way from \$4.10 to \$4.25 as to quality, quantity, and seller. Copper carbonate moving in routine way at 16clb.

**Miscellaneous**—Bordeaux mixture in steady demand at 11clb. up as to quantity and brand. Carbon bisulfide in drums at 6c; cans 7clb. Formaldehyde weak and reported cut to 8½clb. bbls. in cars in one quarter. Carboys at 9½c@10c as to quantity.

A new fertilizer, having a 46 per cent nitrogen content, has been produced in Germany and will be exported to this country if conditions are found satisfactory, according to August C. Strauss, of the German agricultural experimental station, who is visiting America.



INDUSTRIAL CHEMICAL SECTION

## Leather Chemicals

	Trend of the Market					
	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acid, Acetic, 28% .....	\$3.12	\$3.12	\$3.12	\$3.38	\$17.00	\$1.50
Acid, Formic, 90% .....	.13	.13	.13	.12½	1.50½	.07
Acid, Lactic, 22% dark....	.05	.05	.06	.04½	.07	.02
Potassium Bichromate ....	.09¼	.09¼	.09¼	.10	.65	.06¼
Epsom Salt, tech. ....	1.80	1.80	1.80	1.85	3.75	1.00
Sodium Prussiate, Imp....	.09½	.09½	.10	.16	1.25	.18
Soda Ash, 88% wks.....	1.38	1.38	1.38	1.45	4.10	.69
Sodium Bichromate .....	.07½	.07½	.07½	.07½	.45	.04¼
Sodium Hyposulfite, pea..	2.50	2.50	2.50	2.75	3.75	1.80
Sodium Sulphide, 60% wks..	.03½	.03¼	.03¼	.04¼	10¼	.02½
Average .....	.926	.926	.927	.999	3.267	.528

Still marking time in the midst of Summer dullness, the leather trade is buying only limited chemicals. The strength of several oils for leather use is noted. Quebracho bears watching by tanners.

**Acids**—Only routine movement of mineral acids. Demand for others also limited. Contract shipments smaller. Acetic steady at \$3.12@3.37 for 28%; \$5.85@6.10 for 56%; \$11.01@11.76 for glacial. Based on wood chemical situation generally, lower prices do not look likely. Formic acid in steady demand at 12½¢@13¢lb. for 85% and 90%. Lactic steady at 5¢@5½¢lb. for 44% dark, and ½¢ higher for light. Muriatic \$1.20@1.70 hundred in carboys. Oxalic dull at 9¼¢@10¢lb.

**Alkalis**—Shipments on contracts still reported small owing partly to the season and partly to dull business generally. All prices steady. Contracts solid caustic still \$3.10 carlots drums works; less, \$3.76@3.91; ground and flake, \$4.16@4.31. Soda ash at \$1.38 contract basis cars, bags works; barrels, \$1.63 cars; less

cars proportionately higher. Rumor has it that alkali contract prices for 1925 will be higher.

**Dye and Tan Woods**—The market remains quiet both on spot as well as for shipment. Divi divi is quoted at \$42@43 ton, although buyers will only pay \$40@41 ton. Wattle bark is slightly lower at \$32.85@34.00 ton as to seller, but active thereat. Sumac is quoted at \$158@160 ton with no sales having been made last week.

**Extracts**—Sellers appear to be "standing pat" at prices formerly quoted. As soon as manufacturing commences next month, the trade expects some price movements, which are said will be higher owing to the limited amount of stock carried on spot. Quebracho is quiet with holders naming 4¢@4½¢ lb. for solid 65 per cent material.

**Oils**—Market has maintained a firm tone during the week with price advances reported in many items. Export demand for animal oils continues active, with an improved interest noted for the various fish oils. Demand for vegetable oils remains conservative. Following advances in seed markets, linseed oil is selling higher at \$1.03 gal., less than carlot quantities. Light strained menhaden is quoted 56¢@58¢ gal., with cod oil at 58¢@60¢ gal. Castor oil has been advanced to 16¢@16½¢ lb. for No. 3. Extra neatfoot oil has been advanced to 11¼¢ lb. in bbls., N. Y.

Hollingsworth & Whitney, paper manufacturers, are having plans made for a new plant at Calais, Maine. This will be the only tidewater paper mill on the American seaboard and will enable the company to take its chemicals direct by water transportation.

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IRON ACETATE



## Paper Chemicals

	Trend of the Market					
	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Aluminum Sulfate .....	\$2.40	\$2.40	\$2.40	\$2.40	\$5.50	\$1.50
Bleaching Powder .....	1.90	1.90	1.90	1.75	9.80	1.50
Casein .....	10%	10%	10%	25	28	20
China Clay, Dom. ....	10.00	10.00	10.00	15.00	25.00	8.00
Chlorine c/l Cyl. ....	0.05%	0.05%	0.05%	0.05%	30	0.08
Salt Cake .....	20.00	20.00	20.00	25.00	80.00	11.00
Sodium Silicate, 40° .....	.80	.80	.80	.95	1.75	2.00
Soda Ash .....	1.38	1.58	1.38	1.45	4.10	.69
Sulfur .....	18.00	18.00	18.00	18.00	65.00	20.00
Rosin F grade .....	5.80	5.80	5.75	6.95	4.50	20.25
Average .....	6.005	6.005	6.000	7.190	13.30	5.50

Movement of chemicals to mills is naturally limited at this time. Shipments of bleach and chlorine are in fair volume for Summer months. Alkali and mineral acid deliveries, however, are behind. Buying of spot chemical stocks is at a standstill. Prices for paper trade chemicals are generally unchanged.

**Acids**—Only routine movement of mineral acids. Demand for others also limited. Contract shipments smaller. Acetic steady at \$3.12@3.37 for 28%; \$5.85@6.10 for 56%; \$11.01@11.76 for glacial. Based on wood chemical situation generally, lower prices do not look likely. Formic acid in steady demand at 12½¢@13¢lb. for 85% and 90%. Lactic steady at 5¢@5½¢lb. for 44% dark, and ½¢ higher for light. Muriatic \$1.20@1.70 hundred in carboys. Oxalic dull at 9¼¢@10¢lb.

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tract basis cars, bags works; barrels, \$1.63 cars; less cars proportionately higher. Rumor has it that alkali contract prices for 1925 will be higher.

**Bleaches**—Prices firmly maintained as compared with a sagging market last year at this time. Present indications are that no reduction in prices will be made this Summer as producers have evidently avoided overproducing bleach and chlorine, the basic cause of the debacle last year. Bleach large drums \$1.90; small drums, \$2.10 hundred, both carlots. Less cars, \$2.35@2.60. Chlorine tanks cars 4½¢lb.; cylinders carlots 5½¢; cylinders less cars 6½¢; less tons lots 7½¢lb.

**Chemicals**—Salt cake is quiet at \$18.00@20.00 ton; sodium silicate at 75¢ hundred for 40 degree in tanks, and 5¢ higher for drums. Alumina sulfate firm at \$2.25@2.35 hundred for iron free; \$1.30 for commercial. Dry sodium bisulfite 4¢.

**Sizings**—Rosin prices are steady and for the third week show no material change. Quoted \$5.55 for B up to \$7.60 for WW. Firm and likely to continue so, according to Savannah advices. Casein is quiet at 10½¢ spot for imported. Stocks reported sufficient for demand.

### EXPORTS OF PAPER DECREASE

Paper exports from the United States during May, valued at \$2,076,353, registered a decrease of 3 per cent compared with the previous month and 8 per cent compared with May, 1924, according to the Department of Commerce. Declines in the volume exported compared with last year are noticeable in shipments of newsprint, uncoated book paper, cover paper, greaseproof and waterproof papers, writing, surface-coated, tissue and crepe papers, boards, photographic and hang-

Trade



Mark

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1924

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Owego, N. Y.



ing paper, bags, boxes and cartons, and papeteries, and the majority of these also show a falling off in the volume of shipments compared with last month. On the other hand, exports of wrapping papers (including kraft), toilet paper, paper towels and napkins, sheathing and building papers, wall board, cigarette and carbon papers, envelopes, and cash register and adding machine papers, increased in May compared with the same month last year, and in the case of wrapping papers, toilet papers, sheathing and building papers, and envelopes as compared with April.

### DAIRY INTERESTS OPPOSE CASEIN CUT

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., July 23.—Opposition to the proposed reduction in the duty on casein, which reduction was petitioned some months ago by the various coated paper manufacturers in the United States, has been filed in the form of a final brief by the representative of the combined dairy interests. The brief criticises the Tariff Commission's methods in determining skim milk costs in the manufacture of casein. It was filed by A. M. Loomis, counsel for several dairy associations, and did not go into other phases of the case.

Dexter Sulphite Pulp & Paper Co., Watertown, N. Y. has sued Carthage Sulphite Pulp & Paper Co., Carthage, N. Y. for failure to deliver chemical pulp. The Carthage company is in the hands of a receiver.

Casein is quoted at 8½c lb. for Aug.-Sept. shipment, but little buying has been done, and offers receive little attention, according to the "Journal of Commerce."

### Rubber Chemicals

#### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Antimony Sulfide Crim....	\$ .39	\$ .39	\$ .39	\$ .33	\$ .45	\$ .35
Carbon Bisulfide .....	.06	.06	.06	.06	.50	.10
Carbon Black .....	.12	.12	.12	.13	.30	.14
China Clay, Imp. ....	16.00	16.00	16.00	16.00	20.00	14.00
Hexamethylene .....	.82½	.82½	.82½	.97	1.35	..
Iron Oxide, Span. ....	.03	.03	.03½	.04	.04½	.05
Lithopone .....	.06½	.06½	.06½	.06	.08	.04
Sulfur .....	3.05	3.05	3.05	2.50	6.50	2.75
Whiting, Dom. ....	14.00	14.00	14.00	18.00	30.00	11.00
Zinc Oxide, Amer. ....	.08	.08	.08½	.07	.09½	.09
Average ...	3.462	3.462	3.464	3.820	5.931	..

Movement of rubber chemicals into consuming channels during the past week has been along routine lines only. Some active business in hexamethylene has been reported both for immediate delivery and for shipment during the next few months. One shipper of barytes from Germany has advanced his price, while others hold to formerly quoted levels. Sellers appear firm in their ideas as to what spot stocks are worth, and little tendency has been shown to shade prices in order to move goods. This condition indicates the smallness of present stocks. Carbon black is quoted steady at 8c@9clb. works in c/l as to seller.

**Acid**—Acetic is in small demand at the moment at \$3.12@\$3.37 cwt. for 28 per cent; \$5.85@\$6.10 for 56 per cent; \$7.20@\$7.45 for 70 per cent; \$8.19@\$8.44 for 80 per cent, commercial; \$9.98@\$10.23 for 80 per cent, pure; and \$11.01@\$11.75 for glacial material.

**Accelerators**—Hexamethylene has been in active demand with holders naming 82½c@85clb. spot as to



**"COLUMBIA BRAND"**

Columbia Chemical Division,  
Pittsburg Plate Glass Co., Barberton, Ohio

# Caustic Soda

All Tests

# Soda Ash

Dense-Light  
Granular if Desired

Sole Selling Agents

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NEW YORK

FIRST NAT'L BANK BLDG.  
CINCINNATI



**VICTOR CHEMICAL WORKS**  
CHICAGO, ILL.



## Tri-Sodium Phosphate

Phosphate of Soda  
Epsom Salts  
Ammonium Phosphate  
Phosphoric and Formic Acids  
Oxalic Acid

BRANCHES  
New York  
Nashville  
St. Louis

quantity. Aniline oil is quiet at 16c@17c lb. works, and 17c@18c lb. spot. Diphenylguanidine is in routine demand only at \$1.05@\$1.15 lb. spot as to quantity and seller. Lithargé is steady at \$10.50@\$11.00 cwt. spot. Quinoidine is dull with holders quoting 55c@60c lb. spot as to quantity. Carbanilide is routine only at 27c@29c lb. spot as to quantity.

**Colors and Compounding Materials**—Little movement in this line reported with aluminum flake named at \$23 @ \$27 ton works. Antimony sulfurette is in active demand at 19c@24c lb. spot for golden, and 39c@50c for crimson material. Asbestine appears neglected by consumers. Quoted at \$18@\$20 ton works. Blanc fixe is quiet at 4c@4½c lb. f.o.b. New York. Carbon black is quoted at 8c@9c lb. works in c/l; 12c@14c lb. spot in cases for ordinary; 14c@16c lb. for air floated; and 12c @14c lb. for compressed. Export demand appears to have shown some improvement during the past two weeks. Lithopone is quiet at 6½c@6¾c lb. spot. Magnesium carbonate is held at 8¼c@8¾c lb. spot, and calcined at 5½c@6c lb. Talc is quiet with holders naming \$16@\$18 ton works or \$28@\$30 ton ex-warehouse for domestic; French, \$40@\$45; and Italian, \$60@\$80 ton. White barytes is in fair demand at \$23@\$25 ton works, and \$28@\$34 ton for imported as to quality and seller. Whiting is in steady demand at \$13@\$15 ton for domestic, and \$18@\$20 ton for imported. Zinc oxide is dull and price is 8¼c@9c lb. spot.

**Mineral Rubber**—In small demand at the moment at \$35@\$75 ton works as to quality.

**Solvents**—C.P. acetone is steady at 15c@16c lb. works in c/l, and methyl acetone, 70c@80c gal. as to quantity. Reports were heard that one of the producers was not in position to deliver, but on checking up it was found

not to have been turning down any orders. Benzene is easy at 23c@25c gal. works in tanks, and 28c@30c gal. in drums for 90 per cent. Pure named at 24c@26c gal. in tanks, and 29c@33c gal. in drums.

**Sulfur**—Supplies ample for all needs at \$3.05@\$3.30 cwt. as to quality; and \$2.50@\$2.90 for superfine material.

## Textile Chemicals

### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre. War
Acid, Acetic, 28% .....	\$3.12	\$3.12	\$3.12	\$3.17½	\$17.00	\$1.50
Acid Oxalic .....	.09¾	.10	.10½	.13	.70	.07½
Bleaching Powder .....	1.90	1.90	1.90	1.75	9.50	1.50
Copper Sulfate .....	4.40	4.50	4.70	5.60	20.00	4.50
Epsom Salt, U.S.P. ....	2.16	2.10	2.10	2.25	4.25	1.50
Glauber's Salt .....	1.20	1.20	1.30	1.25	2.50	.80
Potash, Caustic, Imp. ....	.06¼	.06¼	.06¼	.07¼	.87	.12
Soda Ash, 58% wks. ....	1.38	1.38	1.38	1.45	4.10	.60
Soda Caustic, 76% wks. ....	3.10	3.10	3.10	3.16½	9.50	1.80
Sodium Bichromate .....	.07½	.07¼	.07¼	.07½	.45	.04¼
Average .....	1.753	1.763	1.783	1.790	4.800	1.42

A few intermediates and chemicals show a tendency to be less plentiful in distressed hands. Such as betanaphthol, Glauber's salt, prussiates, sal ammoniac, and one or two others, are slightly firmer. Starches and dextrans stand out as the strong spot in textile raw materials.

**Acids**—Only routine movement of mineral acids. Demand for others also limited. Contract shipments smaller. Acetic steady at \$3.12@\$3.37 for 28%; \$5.85@ \$6.10 for 56%; \$11.01@\$11.76 for glacial. Based on wood chemical situation generally, lower prices do not



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## Yellow Prussiate of Potash

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for the  
**Textile Industry**

**LYKOPON**—A concentrated **SODIUM HYDROSULPHITE**, for indigo and vat dyeing.

**FORMOPON**—For discharge printing and stripping.

**FORMOPON EXTRA**—For stripping woolen goods and shoddy.

**PROTOLIN**—For stripping woolen goods.

**ALUMINUM CHLORIDE**—Crystals and liquid, for carbonizing woolen stock.

look likely. Formic acid in steady demand at 12½¢@13¢lb. for 85% and 90%. Lactic steady at 5¢@5½¢lb. for 44% dark, and ½¢ higher for light. Muriatic \$1.20 @ \$1.70 hundred in carboys. Oxalic dull at 9¾¢@10¢lb.

**Alkalies**—Shipments on contracts still reported small owing partly to the season and partly to dull business generally. All prices steady. Contracts solid caustic still \$3.10 carlots drums works; less, \$3.76@ \$3.91; ground and flake, \$4.16@ \$4.31. Soda ash at \$1.38 contract basis cars, bags works; barrels, \$1.63 cars; less cars proportionately higher. Rumor has it that alkali contract prices for 1925 will be higher.

**Bleaches**—Prices firmly maintained as compared with a sagging market last year at this time. Present indications are that no reduction in prices will be made this Summer as producers have evidently avoided overproducing bleach and chlorine, the basic cause of the debacle last year. Bleach large drums \$1.90; small drums, \$2.10 hundred, both carlots. Less cars, \$2.35@ \$2.60. Chlorine tanks cars 4½¢lb.; cylinders carlots 5½¢; cylinders less cars 6½¢; less tons lots 7½¢lb.

**Chemicals**—Resellers have cut some prices this week. Although producers of oxalic acid quote 9¾¢ inside, some outside lots are available at 9½¢lb. Imported copper sulfate can be bought down to 4¢lb. spot. Makers still at \$4.40@ \$4.45 hundred. Potash caustic is cheaper here than abroad. Spot 6½¢@6¾¢. Potash permanganate lower at 13½¢ lb. spot from resellers. Maker 14¢.

**Starches and Dextrines**—Market has continued firm with prices unchanged at advances reported last week. In view of the increasing price of corn and the reopens a steady undertone. British gum is quoted \$4.59@

ing of many large New England mills, the market main-\$4.74. White corn dextrine is firm at \$4.24 with yellow quoted \$4.29. Powdered corn starch is unchanged at \$3.77, and pearl, \$3.67 per 100 lbs. Tapioca flour is quoted 6¢@6½¢ lb.

#### METZ TALKS TO TEXTILE CHEMISTS

The Northern New England Section of the American Association of Textile Chemists and Colorists held an outing Thursday, July 10, at Merrimack Valley Country Club, Methuen, Mass. It was attended by about 200 members. Baseball games took up the afternoon, and dinner was served at 7 o'clock. The speaker of the evening was Col. H. A. Metz of H. A. Metz & Co., New York. He said the dyestuff condition is unsettled, not only in this country but abroad, and what was needed was co-operation among the concerns and between the buyers and the consumers.

The German Dye Cartel has been making overtures to American clothing manufacturers to ascertain their requirements with a view of competing actively in the American market, according to a prominent woolen manufacturer, who said he had received a letter from a well-known manufacturing clothier telling of the advances made by the Germans.

Amoskeag Manufacturing Co., Manchester, N. H., has posted notices that the plant will go on a schedule of three days for the next two weeks, the new schedule applying to mills which have been closed for a fortnight.

# HF & G

## Nickel Anodes Nickel Salts

**The HARSHAW, FULLER  
& GOODWIN CO.**

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## COLORS

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### Textiles, Paper and Leather

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We supply a complete line of domestic and  
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Special shades matched and complete  
formulas furnished



# GERMAN VIEW OF GRASSELLI AGREEMENT

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., July 23.—The German version of the agreement between Grasselli Chemical Co., Cleveland, and the German Bayer company is contained in the following translation which has just been received here from Berlin. The following story appeared in "Industrie und Handelszeitung," Berlin:

"The Grasselli Chemical Co., Cleveland, Ohio, has negotiated with Farbenfabriken vorm. Friedrich Bayer, Leverkusen and Elberfeld, in order to form an association of both enterprises for the mutual use of trademarks and patents on the American market. After some gentlemen from the American company had opened negotiations here in Germany, two representatives of the Bayer company went to America to follow up the matter. According to our information, the Grasselli company, which had acquired the Bayer branch factories in Albany and Paterson when these had to be sold, took the initiative because the question of legality as to the possession of trade mark protection and patent rights is generally not yet sufficiently cleared up.

"Grasselli, who then acquired with the Bayer branch plants, the Bayer trade marks, patent rights and processes, especially on pharmaceutical preparations, has an interest in this association, by overcoming certain difficulties of a legal nature, as for example the use of the trademark 'Mayer.' The outlook for this community of interest is good. The report of the Rhenish journal that Grasselli has already taken over the Bayer representation is not confirmed. The Rhenish journal's report that the Bayer branch factories would be taken over by Grasselli on July 1 is also not correct, since they had to be sold long ago."

# ACIDS IN BRISK DEMAND IN FRANCE

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Paris, July 12.—Business continues active in the main branches of the French chemical industry, purchases of acids being particularly brisk. Sulfuric acid has fallen slightly, the 53° being quoted francs 16 as against francs 17; the 60° francs 18 against francs 19, and the 66° francs 28.50 against francs 29.50 per 100 kilograms. Hydrochloric acid 20/21° is offered at francs 14, while the chemically pure grade stands at francs 90. Yellow nitric acid 36° sells for francs 170, while the 36° white is offered at francs 175.

The following prices for leading chemicals are quoted (exchange francs 19.40 to the dollar):

	Francs Per 100 kilo.
Oxalic acid .....	350/400
Citric acid .....	1350
Tartaric acid .....	950
Boracic acid (cryst) .....	430
Soda bichromate .....	325
Potash bichromate .....	470/510
Zinc white .....	475
Bromide of potassium .....	950
Calcium carbide .....	95
Nitrate of potash 90/95° .....	170
Nitrate of soda .....	107
Animal black (powder) .....	160
Sulfate of iron .....	25.50
Sulfate soda .....	31
Sulfate zinc .....	110

Average yearly importation of caustic soda into Chile from 1918 to 1922 was 1,910 metric tons, according to U. S. Consul Thompson, of Concepcion.

# Foreign Trade Opportunities

The Department of Commerce, Washington, D. C., has received the following inquiries for drugs, chemicals and accessories. Reserved addresses may be obtained from the Bureau and its district and cooperative offices. Request for each opportunity should be on a separate sheet and state opportunity number. The Bureau does not furnish credit ratings or assume responsibility as to the standing of foreign inquirers; the usual precautions should be taken in all cases.

Commodity	Number	City and Country	Purchase or Agency
Tar in shipments of 20 to 50 tons .....	10649	Hamburg, Germany .....	Purchase
Disinfectants .....	10657	Cape Town, S. Africa .....	Agency
Drugs .....	10630	Lima, Peru .....	Agency
Drugs .....	10647	Bahia, Brazil .....	Agency
Proprietary medicines, perfumes .....	10655	Alexandria, Egypt .....	Agency
Medicinals, toilet preparations .....	10658	Amsterdam, Netherlands .....	Purchase
Pharmaceutical products .....	10650	Cologne, Germany .....	Purchase
Pharmaceutical products .....	10651	Amsterdam, Netherlands .....	Agency
Toilet articles .....	10603	Durban, South Africa .....	Agency
Ammonia sulfate, copper sulfate .....	10617	Palermo, Italy .....	Purchase
Asbestine .....	10762	Hamburg, Germany .....	Purchase
Benzol .....	10721	Asuncion, Paraguay .....	Purchase
Chemicals .....	10613	Bahia, Brazil .....	Agency
Dyes for hosiery and underwear .....	10764	Nottingham, England .....	Purchase
Linseed oil .....	10814	Vienna, Austria .....	Purchase
Linseed oil .....	10816	Graz, Austria .....	Agency
Oxide of lead, red .....	10762	Hamburg, Germany .....	Purchase
Paint, luminous .....	10742	Vancouver, Canada .....	Agency
Paints and varnishes .....	10809	Bombay, India .....	Agency
Phosphate, mineral, raw .....	10814	Vienna, Austria .....	Purchase
Rosin .....	10784	Iquique, Chile .....	Purchase
Rosin .....	10815	Vienna, Austria .....	Purchase
Soda, caustic, soda ash, and sodium silicate .....	10784	Iquique, Chile .....	Purchase
Zinc white .....	10815	Vienna, Austria .....	Purchase
Drug supplies .....	10780	Asuncion, Paraguay .....	Purchase
Pharmaceutical products .....	10813	Bahia, Brazil .....	Agency
Perfumery .....	10781	Horta, Azores .....	Purchase
Alkalies, laundry and dairy uses .....	10831	Halifax, Canada .....	Purchase
Chemicals .....	10829	Liverpool, England .....	Agency
Chemicals .....	10826	Port au Prince, Haiti .....	Agency
Chemicals .....	10895	Shanghai, China .....	Purchase
Chemicals, heavy .....	10828	Sao Paulo, Brazil .....	Agency
Chemicals, heavy, for textile industry .....	10834	Lodz, Poland .....	Agency
Chemicals, heavy, naval stores .....	10832	Buenos Aires, Argentina .....	Agency
Chlorine, pure liquid .....	10830	Soerabaya, Java .....	Purchase
Drugs .....	10836	Port au Prince, Haiti .....	Agency
Dyes, aniline .....	10834	Lodz, Poland .....	Agency
Dyes for baskets and hats .....	10826	Port au Prince, Haiti .....	Agency
Fertilizers .....	10818	Memel, Lithuania .....	Agency
Fertilizers .....	10827	Vienna, Austria .....	Agency
Germicides for sprayers .....	10825	Merthyr Tydfil, Wales .....	Purchase
Sulfate of alumina .....	10830	Soerabaya, Java .....	Purchase
Wax, palm and canauba, for candles .....	10833	Bologna, Italy .....	Agency
Carbon black .....	10951	Hamburg, Germany .....	Purchase
Carbon black from peach seeds .....	10950	Havana, Cuba .....	Purchase
Chemicals .....	10909	Mesched, Persia .....	Agency
Chemicals .....	10921	Bahia, Brazil .....	Agency
Chemicals .....	10945	Vienna, Austria .....	Agency
Chemicals .....	10946	Bombay, India .....	Agency
Dyes .....	10921	Bahia, Brazil .....	Agency
Naval stores .....	10847	Hamburg, Germany .....	Purchase
Paints and varnishes .....	10946	Bombay, India .....	Agency
Rosin .....	10951	Hamburg, Germany .....	Purchase
Rosin .....	10952	Tokyo, Japan .....	Purchase
Rosin and caustic soda .....	10954	Porto Alegre, Brazil .....	Agency
Drugs .....	10909	Mesched, Persia .....	Agency
Drugs .....	10921	Bahia, Brazil .....	Agency
Drugs and pharmaceuticals .....	10945	Vienna, Austria .....	Agency
Medicines, proprietary .....	10948	Antwerp, Belgium .....	Agency
Medicines, proprietary .....	10949	Antwerp, Belgium .....	Purchase
Petrolatum .....	10946	Vienna, Austria .....	Agency
Toilet articles .....	10941	Porto Alegre, Brazil .....	Agency

An issue of the "Diario Oficial" of Paraguay, contains the text of a decree, effective Dec. 21, 1923, by which sulfur, caustic soda, and aluminum sulfate are admitted free of import duty into Paraguay, when imported exclusively for the use of clarifying quebracho extract.

Exports of arsenic from Antwerp to the United States amounted to 489,274 pounds (\$58,526) during the first quarter of 1924. The 1923 exports totaled 1,105,215 pounds, valued at \$118,082.

### COMMERCIAL SOLVENTS EARNS \$7.26

The report of Commercial Solvents Corp. for six months to June 30, 1924, shows net profit of \$410,463 after depreciation, interest, and reserve for taxes, equivalent, after allowing for dividend requirements on 8% preferred stock and Class A common, to \$7.26 a share earned on 40,000 shares no par Class B common stock. This compares with net loss of \$37,035 in first half of 1923. The income account for six months ended June 30, 1924, compares as follows:

	1924.	1923.
Gross profit*	\$672,478	\$61,939
Expenses, etc.	143,302	63,509
Operating profit	\$529,176	†\$1,570
Miscellaneous income	34,623	24,140
Total income	\$563,799	†\$22,570
Interest, inventory adjustment, etc.	71,152	59,605
Reserve for taxes, amortization, etc.	82,184	.....
Net profit	\$410,463	†\$37,035

\*After depreciation. †Loss.

The directors declared a dividend of \$1 on the class "A" shares, payable Aug. 1 to stock of record July 25. This is for the quarter ended March 31, 1923, and leaves \$2 accumulated on the class "A" shares.

Midsummer dullness in trade, coupled with very drastic curtailment in an uncomfortably large number of basic industries, go to mark the present as a period of major depression, says Irving Bank-Columbia Trust Co., New York. The extraordinary contrast with conditions prevailing at the end of last winter suggests that improvement—perhaps a rather decided improvement—is almost inevitable later in the year. The sustained strength of the security markets seems to confirm this point of view.

Texas Gulf Sulphur Co. reports for the second quarter of 1924 net earnings of \$1,181,773, after all expenses and reserves for depreciation and federal taxes, against \$1,190,190 a year ago. This is equal to \$1.86 a share earned on each \$10 share, against \$1.82 earned in the first quarter of 1924 and \$1.87 in the second quarter of 1923.

A meeting of shareholders of Magadi Soda Co., London, has been called by Brunner Mond Co., for the incorporation of a new company of £250,000, 6 per cent, preference stock, £1,320,000, 6 per cent second preferred, and £600,000 ordinary preferred. The meeting will be held Oct. 17.

The British-American Nickel Corp., Ltd., Ottawa, Canada, has involuntarily liquidated its affairs. The action was taken as the result of a suit against the corporation in Toronto, by the National Trust Co. involving \$6,000,000 first income bonds of the company.

The Bureau of Supplies and Accounts, Navy Department, Washington, D. C., will take bids until Aug. 5, for 5,000 lbs. of rust preventive compound for the Puget Sound, Hampton Roads and South Brooklyn navy yards, as specified in Schedule 2,430.

Judgment against Allied Chemical Exchange, Inc., for \$512.70 has been filed in New York county by Singer Sewing Machine Co.

Fred G. Clark Co., Cleveland, have appointed the Tiffany, Bayless Co. of that city as their advertising agents.

## The Editor's Correspondence

### Mathieson Alkali Stock Intact

Editor, DRUG & CHEMICAL MARKETS:

Our attention has been called to an item appearing in your issue of the 9th inst., which states that reports have been current that control of the stock of this company has been acquired by another company engaged in business of a similar character.

In order that no question on the subject may exist in the minds of your readers, we beg to advise you not only that the corporation mentioned has acquired no interest in our stock, but that, so far as our stock records disclose, no interest of any kind has been acquired therein by any competing corporation or by anyone associated with any such corporation.

THE MATHIESON ALKALI WORKS, INC.

New York, July 15, 1924. E. M. Allen, President.

### CORN PRODUCTS EARNINGS SATISFACTORY

Corn Products Refining Co's business for the second quarter, while not up to expectations, was fair, and earnings for six months ended June 30 are expected to show little change from the corresponding quarter of preceding year which showed surplus after charges and taxes of \$6,076,589, the equivalent after preferred dividends of \$10.40 a share on 497,840 shares of \$100 par common, which was split five for one. Earnings at this rate will show dividends for the entire year earned on the new \$25 par shares in first six months of 1924. Low prices of sugar and seasonal conditions have been contributing factors in the dullness of the glucose business and in the syrup manufacturing branch; however, the starch end is holding up well, and prospects are for improving business abroad. Owing to the high price of corn, a further advance in the company's manufactured products is contemplated.

In reply to an inquirer seeking information about V Vivaudou, Inc., "Financial America," says: "V. Vivaudou common, from the high price of 15¼ this year, has declined to 4¾. Action on the common dividend was deferred in May, although initial quarterly dividend of 1¾% was declared on the preferred. Current assets are said to be around \$3,000,000 ratio of about 5 to 1 to current liabilities. Bank loans are said to be about \$500,000. Sales for the last half are expected to exceed the first six months."

Charles G. Wilson and Arthur T. Vanderbilt, ancillary receivers of Virginia-Carolina Chemical Co., have filed a second report in the Federal Court at Cincinnati, showing a statement of assets and liabilities of the company prepared by auditors as of March 1, 1924. The report showed that total liabilities of the company were \$89,942,015, and assets \$86,276,071. A complete fertilizer factory located in Cincinnati, owned by the Virginia-Carolina Company, is listed at \$297,272.

Federal Match Corp. has declared a quarterly dividend of \$2 a share on the preferred stock, payable Aug. 1 to holders of record July 19.

L. R. Reich filed judgment in New York county, last week, against Joseph Weber and Weber Drug Sundries, Inc., for \$265.72.

Judgment for \$1,314.09 was filed in New York county, last week, by Schieffelin & Co. against Louis R. Hyman.

## QUOTATIONS ON CHEMICAL STOCKS

Closing Prices for Week Ending July 19

Bid	Asked	Bid	Asked
*Air Reduction .....	79 1/2	80	
*Allied Chem. & D. 76	76 1/4		
*Allied Ch. & D., pf. 118	119		
*Am. Ag. Ch. ....	109 1/4	109 1/2	
*Am. Ag. Ch., pf. ....	31	32	
*Am. Chicle .....	23	23 1/4	
*Am. Chicle, pf. ....	65	70	
*Am. Cyan, pf. ....	98	101	
*Am. Cyan, pf. ....	72	74	
*Am. Druggist S. ....	4	4 1/2	
Am. Glue .....	35	37	
Am. Glue, pf. ....	104	108	
*Am. Linseed .....	13 1/4	13 1/2	
*Am. Linseed pf. ....	39 1/2	40	
*Am. Metal .....	42 1/2	43	
*Am. Zinc .....	8 1/2	8 1/2	
*Am. Zinc, pf. ....	27 1/2	28 1/2	
Archer-Dan-Mid. ....	16	19	
Archer-Dan-Mid., pf. 84 1/2	85 1/2		
*Atlas Powder .....	48 1/2	49 1/4	
*Atlas Powd., pf. ....	84 1/2	87	
By-Prod. Co. ....	32	35	
By-Prod. Co., pf. ....	37	40	
Canad. Ind. Al. ....	30	32	
Canad. Salt .....	93	98	
Casolin Co. ....	60	67	
Celluloid Co. ....	46	52	
Celluloid Co., pf. ....	100	105	
Charcoal Iron .....	1	1 1/4	
Ches. Mfg. ....	40 1/2	50	
Ches. Mfg., pf. ....	112	115	
Clark Co., Fred .....	3 1/2	4 1/2	
Cleve. Cliffs Iron. ....	60	65	
*Com'l. Solv. A. ....	63 1/2	64 1/2	
*Do B. ....	38 1/2	39	
*Corn Products .....	34 1/2	35	
*Corn Products, pf. 120	120 1/2		
*Davison Chem. ....	60 1/2	61	
Dow Chem. non par. 32	54		
Dow Ch., pf. ....	94	98	
Dow Drug Co. ....	130	135	
Dow Drug Co., pf. ....	103	108	
*Du Pont de Nem. 124 1/2	125 1/2		
*Du Pt de Nem. Db. 88 1/2	89		
*Eastman Kodak .....	107 1/4	108	
*Eastman Kodak, pf. ....	111	111 1/2	
*Freemont Tex. ....	9 1/2	9 1/4	
*Gen'l Asphalt .....	42 1/2	43	
*Gold Dust .....	37 1/2	38	
Grasselli .....	120	125	
Grasselli, pf. ....	100	105	
Hercules Powder .....	90	95	
Hercules Powd., pf. 102	103 1/4		
Heyden Chem. ....	1 1/4	1 1/2	
Hooker Electro .....	8	15	
Hooker Electro, pf. ....	35	45	
*Household Products 33 1/2	33 3/4		
*Int. Agricult. ....	34	1	
*Int. Agricult. New. 3 1/4	4		
*Int. Agricult., pf. ....	5	6	
*Int. Nickel .....	17	17 1/2	
*Int. Nickel, pf. ....	87	87 1/2	
*Int. Salt .....	70	75	
*Mat'ieson Alk. ....	40	42	
*Mat'ieson Alk., pf. ....	88	90	
MacAnd. & Forbes. 140	146		
MacAndrews & Forbes, pf. ....	98	101	
Merck & Co., pf. ....	61	64	
Merrimac .....	81	85	
Mulford Co. ....	20	32	
*National Lead .....	144 1/2	146	
*National Lead, pf. 111 1/2	113		
N. J. Zinc .....	140	142	
Niag. A., pf. ....	80	85	
Parke, Davis & Co. 77	79		
Penn Salt .....	81	84	
*People's Gas, Chi. ....	98	98 1/2	
Procter & Gamble. 108	110		
Procter & Gam., pf. ....	105	110	
Royal Bak. Po. ....	128	134	
Royal Bak. Po., pf. ....	99	100	
Shawinigan .....	130	132	
Sherwin-Williams .....	28	31	
*Sterling Prod. ....	59	60	
Swan & Finch .....	35	40	
*Tenn. C. & Chem. 74 1/2	74 1/2		
*Tex. Gulf. Sal. ....	70 1/2	71 1/4	
Union Carbide .....	58 1/2	59	
*Un. Drug .....	80	81	
*Un. Drug, 1st pf. ....	48 1/2	49	
*Un. Dyewood .....	35	40	
*Un. Dyewood, pf. ....	88	88	
Un. Gas Imp. ....	75 1/2	76	
Un. Gas Imp., pf. ....	57	58	
U. S. Gypsum .....	87 1/2	88 1/2	
*U. S. Indus. Al. ....	72 1/2	72 3/4	
*U. S. Indus. Al., pf. ....	101	103	
*Va. Car. Ch. ....	1	1 1/2	
*Va. Car. Ch., pf. ....	44 1/2	45 1/2	
*V. Vivaudou .....	4 1/2	5	
Will & Baumer .....	12	15	

\*Listed on New York Stock Exchange  
Unlisted Stocks Through Courtesy Pynchon & Co.

## FOREIGN EXCHANGE

Par Current

Great Britain (pound sterling) .....	\$4.866	\$4.81
France (franc) .....	.193	.051
Italy (lira) .....	.193	.043
Germany (mark) per hundred .....	23.80	
Czechoslovakia (crown) per hundred .....	20.30	2.96
Poland (zloty) .....	.193	.192
Japan (yen) .....	.499	.412
Holland (guilder) .....	.462	.378
Spain (peseta) .....	.193	.132
Belgium (franc) .....	.193	.045
Switzerland (franc) .....	.193	.182
Norway (krone) .....	.268	.134
Sweden (krone) .....	.268	.266
Denmark (krone) .....	.268	.160
Argentina (peso) .....	.424	.325
Brazil (milreis) .....	.324	.106
India (rupee) .....	.486	.315
China (Silver dollar-Hongkong) .....	.789	.527
(Tael-Shanghai, silver) .....	1.086	.723
(Tael-Peking, silver) .....	1.156	.742

A petition in bankruptcy was filed in the Federal Court, New York, last week, against Kendall Products Corp., soap manufacturers, 709 Sixth ave., by Chauncey K. Jost, for \$1,000; Robert D. Martin, \$1,150; Frank Riehl, \$150. Percival Wilds was appointed receiver, under \$1,000 bond, by Judge Learned Hand. Liabilities, about \$350,000; assets, about \$150,000, including patents valued at \$50,000.

Loadings of revenue freight totaled 759,942 cars for the week ended July 5, a decline of more than 10 per cent from those of the same week last year, the Car Service Division of the American Railway Association reports.

## New Incorporations

Chautauqua Chemical Corp., Ashville, N. Y., 100 shares common stock, no par value. Manufacture patent medicines. G. Eggleston, W. O. Brainard, W. M. Hollerbeck. Attorneys, Fowler & Hunt, Jamestown.

Sunny Life Food Products Co., New York, \$50,000. Manufacture food products. L. E. Levy, M. M. MacAlevey, A. E. T. Quinn. Attorney, C. E. Lebarbier, 19 West 44th st.

Bates Chemical Co., Wilmington, Delaware, \$150,000. Manufacture chemicals and chemical products. Corporation Trust Co. of America.

Fresh Fruit Juice Co., 403 Main st., Bradley Beach, N. J., \$125,000. Manufacture soft drinks and juices.

Pompadour De Paris, New York, \$25,000. Manufacture perfumes. N. Sanders, B. Sanders, H. J. Goldberg. Attorney, L. Sanders, 277 Broadway.

Kleer Chemical Corp., Davenport, Ia., organized in Delaware, \$50,000. Manufacture chemical compounds. John C. Mohl, Davenport, Ia. Corporation Trust Co. of America.

Varick Co., New York, \$50,000. Manufacture chemicals and chemical compounds. O. A. Ernest, H. E. Herman, H. Leirich. Attorneys, Herman & Ernst, 170 Broadway.

Larimore Laboratories, New York, \$25,000. Manufacture and deal in drug products. R. M. Larimore, L. D. Larimore, A. T. Wells. Attorneys, Kelly, Hewitt & Harte, 41 East 42nd st.

Chemical and Vacuum Machinery Co., Buffalo, N. Y., 1,000 shares preferred stock, \$100 par value; 2,000 common stock, no par value. C. Baldy, G. F. Phillips, F. G. Anderson.

Lacquer Products Co., Providence, R. I., \$50,000. Manufacture lacquers and affiliated products. Gilbreth Brown, Lincoln Vaughn, P. B. Deming, 80 Wheeler ave.

Vivate Processes, Inc., Lodi, N. J., 10,000 shares of stock, no par value. Manufacture chemicals and chemical compounds. Augustus Houghton, Woolsey Sheppard, F. M. Maurice.

Thomas A. Zimmerman, North Bergen, N. J., \$125,000. Manufacture chemicals and chemical compounds. James Puno, Thomas Zimmerman, 1019 Bergenline ave.

Mohecan Pottery Co., Philadelphia, Pa., organized in Delaware, \$50,000. Manufacture pottery. Corporation Guarantee and Trust Co.

Canary Food Products Co., Wilmington, Del., \$10,000. Manufacture food products. Colonial Charter Co.

A. B. and D. B. Kibler, Inc., Lakeland, Florida, \$500,000. Produce turpentine. D. B. Kibler, A. B. Kibler.

Strychac Fireproofing Co., New York, \$30,000. Fireproofing materials. H. W. Paprock, F. H. Butchorn, H. E. Tawes. Attorney, F. J. Knorr, Albany.

Empire Chemical Co., Chelsea, Mass. Manufacture chemicals and chemical compounds. Frank A. MacDonald, John J. Cowan, 267 2nd st.

Valentine Chemical Co., Boston, Mass. Manufacture chemicals and chemical by-products. William V. Flynn, 14 Alberta st., Roxbury.

Metallic Fibre Specialty Co., Boston, Mass. Manufacture fiber products. Alonzo W. Hurlbut, 161 Massachusetts ave.

Chicago Lubricating Oils Co., \$150,000. Refined and lubricating oils. Philip H. Bopp, Albert N. Lewis, August H. Hartman, 127 North Dearborn st.

Boulee-Fraser Tanning Co., 254 Woolsey st., Irvington, N. J., \$200,000. Operate a leather tannery. Bradford W. Seaman, Francis W. Emerson.

American Acid Works, Inc., Dallas, Texas, \$10,000. Manufacture acids and other chemical specialties. F. E. Ormsby, A. R. Thomasson, J. M. Still.

Illinois Chemical & Alizarin Co., 7015 Jeffery ave., Chicago, Ill., \$5,000. Manufacture chemicals and affiliated products. Walter T. Winkler, R. M. Elder, F. V. Widger.

Field Soap Co., Edina, Mo., \$300,000. Manufacture soaps and washing fluids. F. W. Field, D. R. Nelson.

Rapidol Co., Newark, N. J., \$125,000. Manufacture dyes and chemicals. Walter A. Pledger, Frederick J. Matheson, 518 Broad st.

Vigorlac Manufacturing Co., Gary, Ind., \$10,000. Manufacture chemicals and affiliated products. Harry G. Hanley, Peter G. Sampanis.

H. Van Driessche Co., Gloversville, N. Y., \$50,000. Manufacture leather products. H. Van Driessche, A. A. Farthing, W. E. Mills.

Liberty Prepared Red Lead Paint Corp., Wilmington, Del., \$300,000. Manufacture and sell red lead paint.

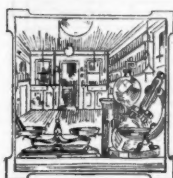
M. J. Smith Sales & Importing Co., New York, \$50,000. Drugs and medicines. M. J. Smith, A. E. Fiegel, J. E. Stewart. Attorney, L. D. Freund, 184 Nassau st.

American Coke and Chemical Contracting Co., Wilmington, Del., \$100,000. Manufacture. Corporation Trust Co. of America.

Standard American Glass Co., Los Angeles, Cal., \$1,000,000. Operate sheet glass plant. F. A. Dixon, W. L. Dixon. Attorney, Glen Behmeyer, 1216 March-Strong Bldg.

Avon Leather Products Co., Avon, Mass., \$50,000. Manufacture leather products. George W. Slocum, Minnie Nelson, 22 Milton st., Brockton.





# Drug & Fine Chemical

## SECTION



### Is Citric Acid Overproduced?

#### Price Policy of American Makers in Midst of Consuming Season Indicates Fear of Foreign Surplus

ON the satisfactory disposition of 15,000 tons of lime citrate, which are owned by the Camera Agrumaria in Italy, the future price of citric acid depends largely. Until recently, the combine could not obtain any financial assistance from the Italian Government, who have withdrawn their support and now act only in a supervising capacity. Several months had passed, at the end of which time, the manufacturers were hard pressed for funds. In order to avoid a depressed market for lime citrate, some of the factors, who were a part of the combine, considered the advisability of dumping the lime citrate into the sea, and start afresh the manufacture of the basic raw material for citric acid.

Finally, however, assistance was obtained from the Messina banks with the condition that these stocks of citrate would be entirely disposed of into consuming channels during the next seven years at the rate of about 2,000 tons per year. In order to successfully put over this scheme and not depress the market, the manufacturers are naturally obliged to curtail production in order to counterbalance the present visible supplies.

Average citric acid, and lime citrate figured as citric acid, exported from Italy annually for the past ten years was 4,205 tons, according to official data from the Italian Government. With a stock of 2,000 tons of lime citrate to dispose of each year for the next seven years, production of lime citrate cannot be expected to exceed 5,000 tons, based on the exports of the past ten years. The average amount of citric acid exported from Italy during the past five years has been greater than the five years previous, but less in the case of lime

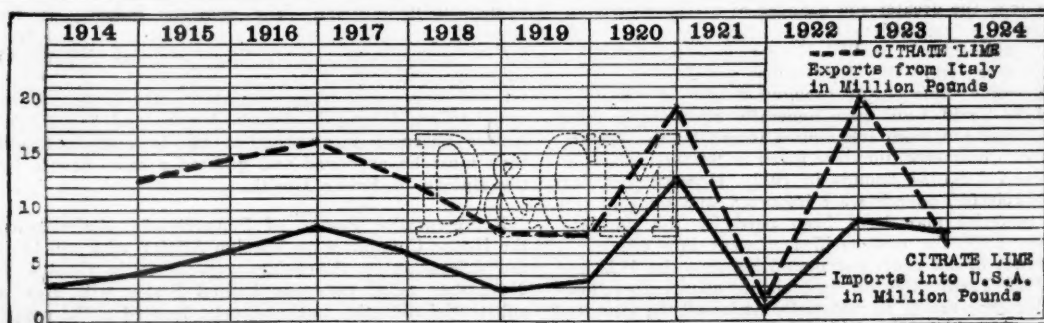
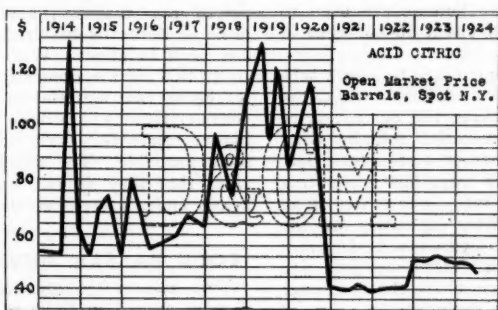
citrate. The differences, however, balance each other with the result that the industry, as far as the exports from Italy go, has shown practically no expansion since 1920.

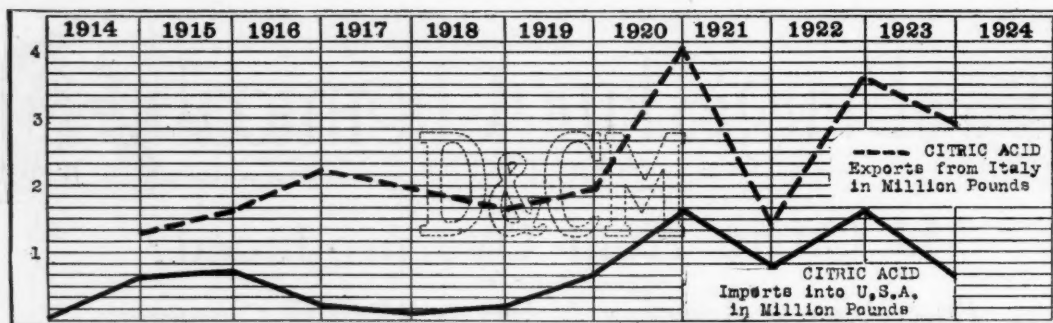
If exports of citric acid

and lime citrate, figured as citric acid, are within 7,000 tons, the trade does not expect any further reduction in the price of citric acid, since on this basis, production, coupled with 2,000 tons which are available for disposition during the year, will be equal to average consumption for the past ten years. Naturally, supply and demand of citric acid regulate the price. When the market price of lime citrate is not sufficient to make it worth while to gather the fruit, then ex-

ports should slump considerably. For the first quarter of 1924, ending March 31, exports of citric acid and of lime citrate, figured as citric acid, were 2,452 tons, leaving 5,548 tons to be shipped the remainder of the year in order to compare favorably with the average of the ten year period. To produce and ship 5,000 tons from April until December this year is not entirely impossible. With exports varying over a wide range during the past ten years, determination of their effect on the price of citric acid in America, seems difficult to ascertain. This is illustrated by the exports of lime citrate during 1922 being 300 per cent above those for 1923.

The actual price of spot citric acid is generally made by the domestic manufacturers, since they sell about 90 per cent of the 3,500 tons which are sold annually in the United States. When the domestic price is either raised or lowered, the importer almost always follows suit. The amount produced in California bears little





weight in determining the American price, since records show imported material has been landed in New York for re-shipment to the Pacific Coast. One direction has gone so far as to say that Italian lime citrate has been shipped to firms which manufacture citric acid in California. This condition can be explained by the fact that in Italy about 30 per cent of the lemons are used to make lime citrate, compared with about 10 per cent in California.

The foreign manufacturer is accustomed to figure selling prices on replacement of raw material, while the domestic maker leans toward making the current price in line with what the raw material actually cost, whether it were bought two years or two weeks ago. Profits are naturally made either way, but in quoting the consumer goods for future delivery, one system may have the advantage over the other, depending on the time at which the raw material was purchased. In practice, however, the market price is determined just like any other article, namely, the price which the consumer is willing to pay. The present replacement price of imported citric acid is inside at 31c/lb. c.i.f. New York, or 48c/lb. duty paid, exclusive of any overhead charges. Since Italy controls the raw material, little difference results in whether the acid is made in America from imported lime citrate or made into acid in Italy and then shipped to the United States. A smaller profit on a large bulk of lime citrate is often preferable to a double profit, one on the lime citrate and one on the acid.

The margin in selling citric acid is small at all times owing to a number of dealers all over the country using this acid as a "leader" to attract other business. Excitement is obtained from the citric acid market, particularly when the price moves upward and importers take a "flier" in the article. If the domestic makers continue to practice the policy of keeping their prices and margin down in order to discourage importations, and they undoubtedly feel that in the long run they will be benefitted, low prices may continue for some time to come. Then, too, the lower the price of citric acid, the greater the chances of avoiding competition from manufacturers of other acids, such as lactic, tartaric, phosphoric, malic. No serious competition has been noticed from this direction as yet.

Imports of lime citrate previous to the enactment of the 1922 Tariff Law were generally conceded to have been large, but from the figures issued by the Department of Commerce, they are given as 988,969 pounds in 1921 and 8,983,134 pounds in 1922. However, in 1920 over 12,000,000 pounds were imported, and some of this raw material may have been used by the domestic makers after the new tariff law went into effect. A difference of six cents per pound between the 1922 and the 1913 Tariff rates on lime citrate apparently allows the domestic maker to materially undersell the imported citric acid, which is dutiable at 17 cents per pound, pro-

viding, of course, the citrate was brought in under the lower tariff. The 7 cent duty on lime citrate, however, is about equal to the 17 cent duty on citric acid. As soon as cheap raw material is used up, the price of citric acid must advance, according to trade views. But in spite of the cry of the shortening of supplies of low priced raw material, manufacturers have reduced the price of domestic material several times since the tariff has been in effect. With the price of citric acid well controlled by the domestic makers and with a tendency for cheap raw material to make its appearance in Italy, coming from old stocks as well as new production, higher prices for citric acid in the near future do not seem probable. The attitude of American makers indicates that they do not want, and will not have higher prices under present conditions.

#### TOLU BALSAM BUYING 20,000 LBS. BEHIND

Tolu balsam has advanced sharply over the week and is now quoted at \$1.90 to \$1.95 lb. spot with tendency for higher prices, as only small supplies are being offered from the source and stocks on spot are not heavy. Two weeks ago London cabled offers to sell in the New York market, but orders to buy immediately followed. Under ordinary conditions when importers place an order to ship twenty-five cases, they are shipped by the next boat as well as an additional lot, which is shipped to be sold on consignment. Orders, which were placed in March, did not arrive until late in May, resulting in a nearly bare market up to May. During the past six months conservative estimates place the arrivals in New York at 4,500 pounds. Buying has been about 20,000 pounds behind what it was a year ago. Judging from this figure, a good potential market looms with practically no spot stocks to take care of it.

Considerable competition in the sale of pharmaceutical products in the Brazilian market is reported by Consul-General Gaulin, Rio de Janeiro, especially from French manufacturers. The domestic industry is developing rapidly and also offers competition. According to government records there are over 500 establishments engaged in preparing proprietary medicines. Of the larger and more important manufacturers the majority are located in Rio de Janeiro and Sao Paulo. Before pharmaceutical products can be sold in Brazil they must be approved and granted a sales license by the Bureau of Public Health.

Representative Porter, of Pennsylvania, chairman of the House Committee on Foreign Affairs, who will head the delegation to the opium conference in Geneva in November next, says the United States will urge a substantial reduction in the acreage devoted to the poppy and other plants from which narcotics are derived.

### MONSANTO SAYS PRICES ARE DEFLATED

Monsanto Chemical Works, St. Louis, in their July price list, says: "Fine and medicinal chemical prices are deflated—in many cases to a point where selling prices do not return bare manufacturing costs. While we do not forecast any upturns on products of our manufacture, some of them are nevertheless selling at most advantageous price levels. Salicylates are typical. During 1913 phenol was available at a price of seven to eight cents a pound. Salicylic acid, which requires almost pound for pound of phenol, sold then at twenty-three to twenty-four per pound. A differential existed between the raw material and finished product of sixteen cents per pound. Today, in spite of advanced conversion and overhead costs, competition has reduced the differential between phenol and salicylic acid U.S.P. to seven cents per pound, or less than one-half of that existing in pre-war days.

"Caffeine and coumarin are at pre-war prices in spite of higher raw material costs and dearer labor. These products typify many offerings of the American chemical industry and blandly refute the monopoly charges heard during the tariff hearings in 1922."

At the preliminary opium conference at Geneva, little progress was made, as the opinions of the experts show wide variance, with England on one side and France and Holland on the other. The report states that France is holding out for the limiting of the opium and narcotic drug trade by a strict control of contraband and illegal sales rather than by direct limitation of manufacture. England is in favor of limiting the manufacture in all countries. If the United States cannot obtain the acceptance of the principle of limiting the production of opium and coca leaf, efforts will probably be made to back England in limiting the manufacture of the drugs. Another meeting of the delegates will be held in August, and will be followed by the main conference in November.

### ALCOHOL WITHDRAWALS TO BE DENIED UNLESS NEW STIPULATION IS SIGNED

**Counsel for Proprietary Association Says Regulation is Illegal and Unwarranted—Manufacturer Has No Way to Compel Wholesaler or Jobber to Make Report or or Submit to Inspection**

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., July 23.—Word has been received at the headquarters of the Proprietary Association in this city that members of the association are receiving letters from prohibition officials to the effect that if the alcohol stipulation is not complied with further withdrawals of alcohol will be denied. These letters relate to S.D.A. permits, but it is believed here that holders of H permits will shortly receive similar letters. H. B. Thompson, general counsel of the association, says: "This regulation is wholly illegal and unwarranted." In this connection Mr. Thompson in advising his members says in part:

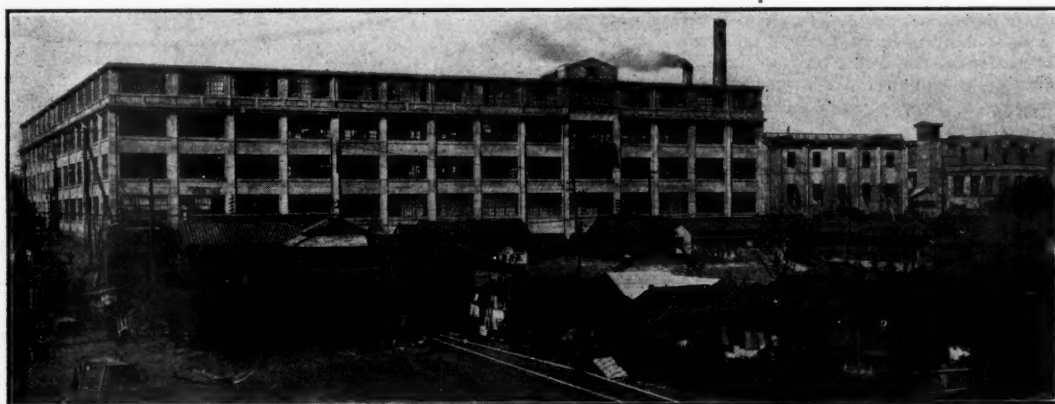
"The requirement that the manufacturers shall exact and enforce a regulation that purchasers of articles of his manufacture shall hold such articles subject to the full and uninterrupted inspection of the officers and shall make reports, is based upon no provision of the law.

"The manufacturer has no means of enforcing such compliance on the part of the jobbers except by declining to sell such goods to such jobbers.

"If such wholesaler or jobber declines to submit to such inspection or submit report as he very properly will do, it will leave the manufacturer helpless in the premises.

"A manufacturer who manufactures a product unfit for beverage purposes and who in good faith complies with other provisions of the Act as written by Congress is entitled to his permit and is entitled to withdraw the necessary alcohol for use in the manufacture of his preparation. Withdrawals of alcohol may not be lawfully withheld by those charged with the enforcement of the Prohibition Act."

## Hoshi Pharmaceutical Company's New Plant



Built since the Japanese earthquake, upon the "American plan" and equipped almost entirely with American machinery and apparatus, the Tokyo plant of the Hoshi Pharmaceutical Co. is a live monument in concrete and steel to the energy of its owners. A new soap factory, of American design and equipped with French machinery, is also building, and it is reported

that all earthquake damages to stores, warehouses, and offices have been repaired, improvements being made in many instances. By far the largest pharmaceutical manufacturer in the East, the Hoshi firm, with five thousand on its payrolls, is a sizeable rival in its annual output of fine chemicals and medicinal and toilet goods of the manufacturers of Europe and America.

DRUG AND FINE CHEMICAL SECTION



## The Fine Chemical Market

Current Spot Quotations for Fine Chemicals, page 264

### COD LIVER OIL FIRMER ON ACTIVE BUYING

Still Quoted \$20.50 bbl. Spot, or \$19.75 bbl. c.i.f. New York for Shipment—Amyl Acetate Lower—Castor Oil Higher—Formaldehyde Lower—Bromides Steady—Thymol Higher—Glycerin Firm—Mercury Quiet

### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced  
Castor Oil, U.S.P., 1c lb. Thymol, 25c lb.  
Declined  
Amyl Acetate, Refined, 25c gal. Formaldehyde, 1/4c lb.

	Trend of the Market					Pre.
	Today	Last Week	Last Month	Last Year	War Peak	
Acetanilid .....	\$32	\$32	\$32	\$32	\$2.00	\$20
Acid Citric, Import .....	.46	.46	.47	.50 1/2	1.25	.49
Caffeine Alkaloid .....	3.50	3.50	3.50	3.65	18.00	3.65
Calomel, American .....	1.22	1.22	1.22	1.25	3.43	.90
Camphor, Jap., ref. ....	.71	.71	.72	.87	3.55	.41
Iodine, Resublimed .....	4.40	4.40	4.40	4.55	5.00	3.75
Menthol .....	10.75	10.75	11.50	9.75	13.50	3.00
Potassium Bromide, Cryst. ....	.38	.38	.38	.26	4.30	.80
Quinine Sulfate, Imp. ....	.50	.50	.50	.49	.90	.25
Sodium Salicylate .....	.40	.40	.40	.47	4.25	.27
Strychnine Sulfate .....	.41 1/4	.41 1/4	.41 1/4	.84	2.08	.50
Average .....	2.11	2.11	2.26	1.96	5.92	1.56

The firmness in cod liver oil featured the fine and medicinal chemical market last week. The easier prices, which have prevailed for the past two months, have resulted in marked expansion in the use of cod liver oil. The larger catch this year, compared with last, is expected to result in sufficient supplies for all, and at the same time be within reach of all buyers. Few changes occurred last week, with the tendency for holders of spot stocks to "stand pat" at formerly quoted levels. No evidence of consumers being in a hurry to fill up their "bins," is apparent, although stocks may be at comparatively low levels. Attention of buyers for the past month has been directed mostly to the golf courses of the country, and if sellers want to dispose of their goods, they are compelled to go to the links. American manufacturers' prices are unchanged from the week previous, and in a number of instances, makers appear to be getting the larger portion of the business owing to the inability of importers to undersell them in the spot market.

**Acetanilid**—U.S.P. goods quoted at 30c@32c lb. spot by first hands, and 29 1/2c@30c lb. from resellers. Demand small at the moment.

**Acid, Acetylsalicylic**—This item appears to be neglected at the present time. Makers quote 75c@85c lb. spot, and resale goods named at 70c@71c lb.

**Acid, Citric**—Imported quoted on spot at 46c@47c lb. with replacements above these figures. Competition keen for available business. Although the season is a month behind, some holders may be called upon to furnish material for rush orders at the end of the consuming year. Sellers, however, may be anticipating this potential condition, and be prepared accordingly. Domestic named at 46c@47c lb.

**Acid, Diethylbarbituric**—Little inquiry reported at \$3.50@\$3.75 lb. spot for imported, and \$10.00@\$12.00 lb. for domestic made.

**Acid, Phosphoric**—Domestic quoted firm at 16c@17c lb. spot as to quantity.

**Acid, Salicylic**—In small demand at the moment at 35c lb. spot from first hands, and 33c@34c lb. from

resellers. Little actual business has been reported from Japan.

**Acid, Tannic**—Quiet with holders naming 75c@80c lb. spot as to quantity.

**Acid, Tartaric**—Dull at 27c@28c lb. spot for imported with prompt shipment named at 20 1/4c lb. c.i.f. New York. Little goods moving at the moment. Domestic named at 30c lb.

**Adeps Lanae**—Quoted in fair demand at 18c@23c lb. spot for hydrous, and 21c@32c lb. for anhydrous material. One lot, however, is being offered at 15c@18c lb., and at these lower figures, the market has been disturbed considerably.

**Alcohol**—Price advances automatically one cent on Aug. 1. In the meantime, buyers are placing fair orders, but do not appear to be anticipating requirements. Completely denatured No. 5 quoted at 44 1/2c@46 1/2c gal. spot in drums, and No. 1 specially denatured at 45 1/2c@47 1/2c gal.

**Alcohol, Butyl**—Quoted firm at 30c@32c lb. works as to quantity. With reports being circulated to the effect that the largest producer has contracts that will run for two years with the four largest consumers, little chance exists for the operation of a competing company, which was organized about three months ago.

**Alolin**—U. S. P. quoted steady at 82 1/2c@85c lb. spot as to quantity.

**Amidopyrine**—In small demand at \$4.35@\$4.50 lb. spot as to quantity for imported material, and \$4.60 lb. for domestic goods.

**Amyl Acetate**—Refined quoted lower at \$3.00@\$3.50 gal. spot, and technical at \$2.55@\$2.75 gal.

**Antipyrine**—Market quiet with holders naming \$2.05@\$2.15 lb. spot as to seller and quantity.

**Bay Rum**—In routine demand only at \$1.20@\$1.25 gal. spot for Porto Rican material, and same price for St. Thomas goods.

**Bismuth Subnitrate**—Makers and second hands both quote \$2.90 lb. spot, and quiet thereat.

**Bromides**—Market firm and active, with imported ammonium quoted at 29c@31c lb. spot; potassium, 25c@27c lb.; and sodium, 33c@35c lb. Domestic makers firm at 44c lb. for ammonium; potassium, 38c@39c lb.; and sodium, 38c@39c lb.

**Caffeine**—Makers report quiet market at \$3.50@\$3.75 lb. spot, and resellers \$3.40@\$3.50 lb.

**Camphor**—Spot quoted at 71c@73c lb. for Japanese slabs with July-Aug. shipment named at 63c@64c lb. c.i.f. New York. Market abroad appears to be firming up.

**Castor Oil**—Has advanced and now quoted at 16 1/2c@17 1/2c lb. spot for U.S.P. goods as to quantity.

**Cod Liver Oil**—Norwegian quoted firmer at \$20.50@\$22.50 bbl. spot owing to better buying for future delivery. Shipment named at \$19.75 bbl. c.i.f. New York. The cheap price appears to have stimulated buying somewhat.

**Cream Tartar**—Imported steady at 20 1/2c@20 3/4c lb. spot as to quantity, and 21 1/4c@21 1/2c lb. for domestic.

**Formaldehyde**—Has declined and now quoted at 8 1/2c@9c lb. works in c/l, and 9 1/2c@10c lb. in carboys.

The recent weakness in methanol accounts for the lower price.

**Glycerin**—C.P. in drums quoted firm at 17c@17½c lb. spot, and dynamite at 16¼c@16½c lb.

**Hexamethylene**—Imported quoted easy at 65c@67c lb. spot, and 75c@77½c lb. for domestic material.

**Menthol**—Spot imported material named at \$10.75@ \$11.25 lb. as to quantity and seller with replacements fully equal to these figures. Prices do not appear to have reacted to the unfavorable crop news, which was received by cable from Japan, recently. When buying is at a minimum, consumers apparently disregard all rumors. Domestic, \$10.50@10.75 lb.

**Mercury**—Spot market unchanged over last week at \$71@72 flask with London reported firm at £13 flask. Prices in Italy and Spain are also unchanged.

**Papain**—In small demand with holders quoting \$2.15 @ \$2.25 lb. spot for refined goods, and \$1.80@1.85 lb. for crude material.

**Podophyllin**—In keen competition with makers naming \$5.75@6.00 lb. spot, and second hands at \$5.65@ \$5.70 lb.

**Potassium Permanganate**—Domestic makers report quiet market at 14c@14½c lb. works, and imported material at 14c@15c lb. spot.

**Resorcinol**—U.S.P. steady at \$2.25@2.35 lb. spot.

**Saccharin**—In active demand at \$1.90@2.10 lb. spot as to quantity.

**Santonin**—Quoted steady at \$145@150 lb. spot as to quantity. Reports are heard that if prices were much lower, the increase in sales would more than offset any potential loss, because of lower prices.

**Strychnine**—Market easy at 61c oz. spot for alkaloid, and sulfate at 41½c oz.

**Sodium Benzoate**—In steady demand at the moment at 65c@68c lb. spot for 100 pounds or less, and 62c lb. for 1,000 lb. lots.

The Foreign Trade Bureau, Philadelphia Commercial Museum, Philadelphia, has received an inquiry (No. 42,478) from a company at Milan, Italy, desirous of getting in touch with American producers of cellulose, in flakes, suitable for use in the manufacture of varnish; also, producers of acetone, amyl acetate, and benzol. An inquiry (No. 42,485) from a concern at Santo Domingo, Dominican Republic, wanting pharmaceutical preparations.

May exports of quinine sulfate and other salts of cinchona totaled 70,794 ounces, valued at \$39,410; anti-toxins, serums and vaccines valued at \$80,468; other medicinal and pharmaceutical preparations valued at \$1,564,868. Ginseng exports totaled 3,774 pounds, valued at \$61,211; other crude vegetable drugs totaled 475,992 pounds, valued at \$108,956.

The business of alcohol permit holders of Philadelphia is seriously handicapped by the flood of smuggled alcohol that is coming in from Belgium. The source of supply is said to be the rum ships off Atlantic City. The price of \$2.50 a gallon for grain alcohol is bettered by the smugglers.

The American Chemical Society will be represented at the annual meeting of the British Association for the Advancement of Science, to be held at Toronto, Canada, Aug. 6 to 13, by Prof. H. C. Sherman, Prof. W. H. Eddy, of Columbia University, Prof. W. D. Bancroft, of Cornell, and Dr. E. E. Slosson, Washington, D. C.

Mr. Roberts, superintendent of the laboratories of Sharp & Dohme, has been superseded by C. C. Neal on account of continued ill health. Mr. Neal has been with the company for several years.

## FIRST OF OPIUM CROP REACHES LONDON

**Early Shipments Not Up to Standard Tests—Quotations Higher on Bromides, Agar Agar, Japanese Camphor Slabs, Otto of Rose, Cloves and Oil Cloves—Menthol Firmer**

(Special Cable to DRUG & CHEMICAL MARKETS)

London, July 23.—Prices are steady in the crude drug and fine chemical markets. Declines are fewer in number and trivial.

The opium crop is late in reaching the market owing to heavy rains. The first shipments are not quite up to standard according to the trade tests.

Higher prices are asked for bromides, agar agar, Japanese camphor in slabs, otto of rose, cloves and oil cloves, and thymol.

Quotations are firmer for balsam copaiba, menthol, citric acid and linseed oil.

The market is easier for pyradin, vanillin and shellac.

London, July 12 (By Mail).—In sympathy with the easier conditions in opium, in anticipation of a large crop, morphine manufacturers have reduced prices for the salts and for codeine as from July 1. Menthol suffered a fresh and heavy decline when Hamburg speculators again entered the market. Arrivals there have been heavy and forced liquidation has followed. Present shipment is offering at 42s c.i.f.

**Bromides**—The recent advance in New York was not at first followed here, but extensive buying orders came from New York and Hamburg and the cheaper available stocks have been nearly cleared at prices up to 8½d per lb for potassium, 9d for lb. for sodium and 10¼d for ammonium. Second-hand, however, is still below makers' parity, being potassium 11d, sodium 1s, ammonium 1s 1d per lb. German makers are decidedly higher and firmer than they have been for many months past, during which period extreme depression has existed. Further upward developments are expected. Senega is getting scarce and now commands 3s 2d per lb. Cascara is slightly easier again for shipment at 85s c.i.f. Fresh arrivals of ipecac have caused an easier feeling at 9s and under per pound.

Other prices are: Morphine hydrochlor powder, 16 ozs 14s 9d, 100 ozs 14s; morphine alkaloid powder, 16 ozs. 18s 2d, 100 ozs. 17s 6d; diacetylmorphine, pure, 16 ozs. 20s 9d, 100 ozs. 20s; codeine pure cryst, 16 ozs. 20s 9d, 100 ozs. 20s; codeine hydrochlor, 16 ozs. 18s 2d, 100 ozs. 17s 6d; amorphine hydrochlor, 1 oz. 37s 6d, 4 ozs. 37s.

## MENTHOL IMPORTERS BEARISH ON CROP

Menthol importers in New York are looking for much lower prices within the next year owing to the stimulation of production in Japan, caused by high prices. One importer said the Japanese farmers will grow peppermint this year until they are "blue in the face." Of course, most anything may happen in menthol. Supplies may become concentrated into strong hands, the domestic manufacturers may become a more important factor in competition with importers, and the Japanese may cross the consuming public by curtailing production in order to keep up prices. This last reason has been proved effective in other Japanese products.

At the present time buying is slow and prices for future delivery are declining sharply. Hamburg is now a seller at 40s pound. Two months ago they were buying freely at 47s pound.

Monsanto Chemical Works, St. Louis, has mailed a card to the trade, describing salicylates. The title is "Supremacy in Salicylates."

## The Crude Drug Market

Current Spot Quotations of Crude Drugs, page 286

### INSECT POWDER IN KEEN COMPETITION

**Season About Over—New Crop Material Sharply Lower—Curacao Aloes Higher—Agar Agar Easier—Japan Wax Lower—Ipecac Root Sharply Higher—Damiana Leaves, Dandelion Root, and Olibanum Gum Scarce**

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced		Declined	
Aloes, Curacao, 1/4 lb.	Damiana Leaves, 1c lb.	Agar Agar, No. 1, 5c lb.	Dragons Blood, Mass, 5c lb.
Arrowroot, St. Vincent, 1/2 lb.	Dandelion Root, 2c lb.	Blackhaw Bark, Root, 2c lb.	Elm Bark, Select, 1c lb.
Balsam, Para, 4c lb.	Ipecac Root, Cartagena, 10c lb.	Tree, 1c lb.	Gentian Root, 1/2 lb.
Cloves, Zanzibar, 1/4 lb.	Rio, 10c lb.	Caraway Seed, Dutch, 1 1/2 lb.	Insect Powder, 5c lb.
	Olibanum Gum, Sift., 1/2 lb.	Cascara Sagrada, 1923 bark, 1c lb.	Japan Wax, 1c lb.
		1924 Peel, 2c lb.	Manna, l. f., 4c lb.
		Chamomile Flowers, Roman, 3c lb.	Mandrake Root, 2c lb.
			Valerian Root, 1/2 lb.

#### Trend of the Market

	Last Today	Last Week	Last Month	Last Year	War Peak	Pre. War
Aconite Root, U.S.P. ....	\$39	\$39	\$40	\$38	\$90	\$12
Buchu Leaves, Short .....	.76	.76	.75	.90	4.00	.85
Cantharides, Russian ....	.90	.90	.90	1.75	9.00	2.10
Cocculus Indicus .....	.03	.03	.03	.03 1/2	.85	.03
Ergot, Spanish .....	.30	.30	.30	.51	4.50	.54
Insect Powder, pure .....	.57	.62	.63	.57	1.00	.28
Ipecac, Cartagena, powd. ....	2.10	2.10	1.90	1.90	4.50	1.35
Nux Vomica .....	.05	.05	.06 1/2	.06 1/2	1.40	.07
Opium, gum .....	9.00	9.00	8.00	8.00	30.00	5.00
Rhubarb Root, H. D. ....	.29	.29	.43	.43	1.75	.15
Tragacanth, No. 1, ribbon. ....	1.20	1.20	1.50	1.50	6.00	1.50
Wild Cherry Bk., thin nat. ....	.08 1/2	.09 1/2	.10	.10	.21	.07
Average .....	1.31	1.32	1.34	1.36	5.28	1.00

The sharp drop in insect powder during the week attracted the attention of the trade. The season is about over, and reports from Japan state that this year's crop will be above normal. Sellers of Dalmatian material will probably find it very difficult to meet competition with the Japanese product in spite of the claim of producing a superior article. Offerings of crude drugs from abroad are exceptionally high, but reports state that if counter offers are made at much lower figures, the importer can easily obtain the goods. On the other hand, late reports from the South state that botanicals are easing off. Buying of cascara sagrada has been particularly active, and supplies appear to be in strong hands. Some buyers are still waiting for lower figures than 11c lb. f.a.s. Coast in car lots. The gathering of this year's peel has been larger than last owing to cheaper labor, which has been attracted from the lumber camps.

**Aconite Root**—Holders name 39c@41c lb. spot with some houses inside at the maximum figure.

**Agar Agar**—Has declined and now quoted at \$1.45@ \$1.50 lb. spot for No. 1 material, and \$1.20 lb. for No. 3 goods with prompt shipment of No. 1 Kobe at \$1.12 lb. c.i.f. New York; No. 2 at \$1.03 lb.; and No. 3 at 98 1/2c lb. The primary market is quiet and little forward buying reported.

**Agaric**—White in small demand at \$2.45@ \$2.50 lb. spot as to quantity.

**Aloes**—Curacao quoted higher at 8 1/2c@9c lb. spot from second hands, while material from first hands is still quoted at 8c lb. ex-dock. Present available supplies

are becoming well concentrated. Shipment is also reported higher. Cape quoted at 8c@8 1/2c lb., and Socotrine at 30c@32c lb.

**Ammoniac Tears**—Market easy at 68c@73c lb. spot as to seller and quantity. Competition keen for the passing business.

**Anise Seed**—Spanish in small demand at 14 1/2c@15c lb. spot, and Star at 11 1/2@12c lb.

**Arabic Gum**—Amber sorts named at 11 1/2c@12c lb. spot with prompt shipment quoted at 54s per 112 lbs. c.i.f. New York.

**Arrowroot**—St. Vincent has advanced slightly and now quoted at 13 1/2c@14c lb. spot for powdered, and American at 10 1/2c@11c lb.

**Asafoetida**—U.S.P. market quiet with holders naming 18c@19c lb. spot, and 35c@37c lb. for powdered.

**Balm Gilead Buds**—In fair demand at 43c@48c lb. spot as to quantity.

**Balsams**—Para Copaiba has advanced and now quoted at 32c@34c lb. spot with shipment fully equal to these figures. Fir Oregon easy at \$1.10@ \$1.20 gal. spot with possibilities of lower figures owing to easier replacements. For other balsams, see Essential Oil Market.

**Belladonna Leaves**—The market appears to have turned easy the past few weeks, with spot quotations at 23c@25c lb. for bales. Root at 11c@12c lb.

**Beth Root**—Higher at 30c@32c lb. spot as to quantity.

**Blackhaw Bark**—Root has declined owing to lower shipment values, and now quoted at 35c@36c lb. spot, and tree at 16c@18c lb.

**Blueflag Root**—In small supply at 30c@32c lb. spot.

**Buchu Leaves**—Holders still ask 85c lb. spot in bales, while some goods are available at 76c lb., but are undoubtedly of inferior quality. Less than bales range from 82c@91c lb. Buying for shipment reported small.

**Calabar Beans**—Supplies ample for present needs at 12c@14c lb. spot.

**Cannabis**—True imported again available at \$5.75@ \$6.00 lb. spot as to seller and quantity with U.S.P. goods named at 70c@85c lb.

**Caraway Seed**—Dutch has eased off again and now quoted at 14c@15c lb. spot, and African at 13c@14c lb. with shipment of new crop as low as 9c lb. c.i.f. New York.

**Cascara Sagrada**—Some active buying has been reported at 11c lb. f.a.s. Coast in car lots. Reports have been heard that a buyer in England, who has been out of the market for the past three years, is again taking on large supplies. The trade looks for higher prices as soon as the visible stocks become well placed. Spot 1923 peel lower at 24c@26c lb., and 1924 bark 16c@18c lb.

**Celery Seed**—Market steadier than last week at 32c@34c lb. spot with tendency to scarcity. Prompt shipment is named at 29c lb. c.i.f. New York.

**Chamomile Flowers**—Roman lower at 60c@62c lb. spot as to quantity with shipment named much easier than these figures. Hungarian at 7c@7 1/2c lb.

**Clover Tops**—Market easy at 19c@21c lb. spot.

**Cloves**—Zanzibars have advanced and now quoted at 28c@29c lb. spot owing to reports of a small crop this



year. Buyers, however, are not inclined to be influenced by estimates on the cloves crop.

**Colocynth Pulp**—Firm at 28c@30c lb. spot.

**Condurango Root**—Lower at 35c@40c lb. spot.

**Damiana Leaves**—Scarce and higher at 14c@15c lb. spot as to seller.

**Dandelion Root**—In small supply at 37c@40c lb. spot as to holder. Some fair sized quantities will arrive in a few weeks, and will be offered at much lower prices.

**Deer Tongue Leaves**—In active demand at 12½c@13c lb. spot.

**Dragons Blood**—Mass quoted easier at 60c@65c lb. spot, and needs at 85c@90c lb.

**Elm Bark**—Select bundles lower at 25c@26c lb. spot owing to cheaper replacement costs as well as keener competition for the available spot business.

**Foenugreek Seed**—Firm at 5c@5½c lb. spot with some houses inside at the maximum figure.

**Gentian Root**—Lower at 8½c@9c lb. spot owing to small demand.

**Golden Seal Root**—The buying flurry appears to have subsided somewhat. Quoted at \$3.60@\$3.70 lb. spot for whole, and \$3.85@\$3.95 lb. for powdered.

**Insect Powder**—Quoted lower at 57c@63c lb. spot with Aug.-Sept. shipment named at 31¾c lb. c.i.f. New York. Reports are heard that some large future sales have been made in the spot market, but whether they are covered is not known.

**Ipecac Root**—Cartagena has advanced and now quoted at \$1.95@\$2.00 lb. spot for whole, and \$2.10@\$2.20 lb. for powdered owing to the revolution in Brazil, which has reduced the Rio goods materially. Some high testing Rio is offered at \$1.95 lb. with practically nothing coming out of South America. Some factors in the trade look for this item to reach \$4.00 lb., if the revolution is not stopped.

**Japan Wax**—Quoted lower at 19c@21c lb. spot as to seller.

**Leeches**—Market has advanced sharply and now quoted at \$8.00@\$9.00 per 100.

**Linden Flowers**—Supplies, with leaves, lower at 10c@11c lb. spot, and without leaves, 17c@18c lb.

**Lobelia Leaves**—In active demand at 33c@34c lb. spot.

**Manna**—Large flakes slightly lower at 91c@95c lb. spot, and small flakes at 51c@52c lb.

**Marjoram Leaves**—French firm at 12c@15c lb. spot as to quality, and German 11c@20c lb.

**Mullein Flowers**—Market slightly off at 90c@\$1.00 lb. spot.

**Olibanum Gum**—Scarce and higher at 9c@9½c lb. spot.

**Rhubarb Root**—Demand small at 29c@31c lb. spot for whole, and 34c@36c lb. for powdered, material.

**Saffron Flowers**—Spanish quoted in small demand at \$36@\$39 lb. spot as to seller, and American 80c@82c lb.

**Senna**—Pods scarce at 30c lb. spot and up. The supplies, which were supposed to have reached this market last week, were delayed and are not expected to arrive for at least two weeks.

The spice market is rather unsettled, and in some groups firmer and a little higher on spot, following the rising import costs, especially of pepper, cloves, gingers, and mace, according to John Clarke & Co., New York, spice brokers.

# PIERCE WINS DRUACHEM GOLF PRIZE

A. H. Pierce, of the Grasselli Dyestuff Corp., New York, won first prize for low gross score with an 82, at the mid-summer golf tournament of the Druachem Club, New York, held at the Maplewood Country Club, Maplewood, N. J., on July 17. J. R. M. Klotz was second with 85. Joseph Lawlor of Lawlor-McCormick Co., New Brunswick, N. J., won the low net with a 76. The Kickers' Handicap was won by Charles E. Kelly of Haggerty Bros., New York. Golf clubs and equipment were given as prizes. About thirty-five members and guests were present for luncheon and dinner, and the tournament at Maplewood. For those who did not play golf, an impromptu tennis tournament was held on the Maplewood courts. William Barry of Mallinckrodt Chemical Works, New York, was the winner after four hours of elimination play. The committee in charge of the tournament was composed of Charles E. Kelly, and B. J. Gogarty of S. B. Penick & Co., New York.

# BALTIMORE DRUG EXCHANGE HAS OUTING

(Special to DRUG & CHEMICAL MARKETS)

Baltimore, July 23.—The Baltimore Drug Exchange Bureau of the Association of Commerce held its annual summer outing last week, when fifty members went to Charles Heintzeman's place on Rock Creek. An old-fashioned country dinner was served and afterward a short business session was held. William A. Sailer, of Sharp & Dohme, president of the Exchange, said the amendment to the Cramton bill, which places the control of prohibition forces with the Prohibition Commissioner, held disturbing possibilities, in that it tended still more to substitute personalities for law and might be expected to result in additional drastic and unwarranted regulations. Mr. Sailer also discussed a clause inserted in some of the alcohol withdrawal permits, which threatens every wholesale distributor of alcohol with cancellation of the permit unless he is at all times in a position to furnish information in detail as to what the buyer of the alcohol has done with any part of the purchase.

A firm with smart stationery and up-to-date methods, operating from Salonica, Greece, has been circulating the drug trade, offering Syrian products, such as mastich, anise, and cumin seed, according to "The Chemist and Druggist," London, which says: "This firm plays the old dodge of getting part payment, usually two-thirds, on receipt of the bill of lading, by the buyer and giving the name of the vessel, usually a well-known one in the Levant trade. The bills of lading and other documents prove to be clever imitations, and no goods are shipped."

The captain and eight members of the crew of the Italian liner Duilio, from Naples and Genoa, were arrested last week on the charge of smuggling narcotic drugs into the United States. Arturo Gaeta, ship's plumber, was charged with selling 500 ounces of heroin, valued at \$30,000 at street sale prices, to James Moog, a Federal agent who posed as a purveyor of drugs to society folk. Moog said that the plumber tried to sell him an additional \$60,000 worth of drugs.

American Chicle Co. voting trust certificates for \$3,000,000 preferred stock and temporary voting trust certificates for 162,500 shares of common stock, without nominal or par value, have been admitted to the trading list of the New York Stock Exchange.

Coumarin has been reduced to \$3.25 to \$3.50 pound by first hands. Phenolphthalein is also lower at \$1.30 to \$1.40 pound.

## The Essential Oil Market

Current Spot Quotations of Essential Oils, 293, Aromatic Chemicals, 290

### OIL CLOVES SHARPLY HIGHER ON SPOT

In Sympathy With Firmer Spice Market—Oil Lemon Easier—Oil Cassia Firmer—Java Citronella Scarce—Oil Cedar Wood Again Higher—Oil Anise Easier—Oil Orange Lower.

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Oil Cassia, Nat'l. 15c lb.	Oil Cedar Wood, 1c lb.
Redistilled, 10c lb.	Oil Citronella, Java, Tins, 10c lb.
	Oil Cloves, 20c lb.
Declined	
Oil Anise, Tech. 5c lb.	Oil Lemon, Italian, 5c lb.
Oil Eucalyptus, Drums, 3c lb.	Oil Orange, Italian, 10c lb.
	Oil Wormseed, 10c lb.

#### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre War
Oil Bergamot	\$3.50	\$3.50	\$3.65	\$2.65	\$7.00	\$5.00
Oil Citronella, Ceylon	.80	.80	.80	.72	.92	.60
Oil Cloves	1.95	1.75	1.75	2.20	3.70	1.40
Oil Lemon, Italian	.80	.80	.80	.75	1.70	2.00
Oil Peppermint, Nat.	4.00	4.00	3.85	2.65	9.00	2.25
Oil Sandalwood, E. I.	6.20	6.20	6.25	7.65	13.00	5.25
Oil Sassafras, Artif.	.35	.35	.35	.45	1.00	.26
Benzaldehyde, U.S.P.	1.50	1.50	1.50	1.50	5.15	1.50
Coumarin	3.40	3.40	3.50	4.50	31.00	3.10
Methyl Salicylate, Cans.	.47	.47	.47	.57	1.00	.90
Vanillin	.49½	.49½	.49½	.40	.95	.20
Average	2.13	2.11	2.12	2.04	6.83	2.05

The rapid rise in oil cloves has featured the otherwise dull essential oil market during the week. A number of distillers on checking up the visible supply of oil, found stocks comparatively low, and that on replacement of present supplies, the cost would be much higher than quoted. With the absence of any large movement of essential oils into consuming channels, sellers appear inclined to shade prices before the arrival of new crop goods. Especially is this true in oils caraway and wormseed. The market is not without its firm items, such as oils citronella, cassia, and cedar wood. If buying were anything like normal, holders of these three oils could easily obtain their own figures. A marked improvement is expected to take place as soon as the manufacturing plants begin operations. Some effect may be noticed before September, when buyers begin to feel out the market. Sellers are usually quick in taking advantage of any increase in the number of inquiries, and will probably make advances accordingly.

#### Essential Oils

**Oil Almond**—Holders do not appear willing to shade \$3.25@3.50lb. spot for U.S.P. bitter, and \$3.25@3.50lb. for f.p.a.

**Oil Angelica Root**—Quiet with competition keen for available business at \$32@36lb. spot.

**Oil Anise**—Natural has declined and now quoted at 45c@50c lb. spot as to seller and quantity, while redistilled is unchanged at 52c@54c lb. Decline due to weak holders and cheaper prices for shipment.

**Oil Bay**—In small demand at the moment at \$2.25@2.35lb. spot.

**Oil Bergamot**—Coppers quoted steady at \$3.50@3.70 lb. spot as to seller and quantity. Primary market is meeting with little success in getting orders from American importers. The Italian policy is reported to be built on a daily basis. If they receive orders they advance their prices, and vice versa. The statistical

position evidently plays little part in formulating quotations.

**Oil Bois de Rose**—Quoted at \$4.25@4.50lb. spot as to seller and quantity with replacements fully equal to these figures.

**Oil Camphor**—Japanese, heavy, is quiet at 14½c@15c lb. spot, and white in drums at 12½c@14c lb.

**Oil Caraway**—Market appears to have been stabilized somewhat at \$5.25@5.75lb. spot with some houses naming \$6.00lb. No lower prices than \$3.50lb. c.i.f. New York have been heard on new crop oil.

**Oil Cardamom**—Little business transacted at the moment at \$28@30lb. spot.

**Oil Carvol**—Easy at \$14@15lb. spot as to quantity.

**Oil Cassia**—Technical has advanced sharply and now quoted at \$1.75@1.80lb. spot, and redistilled \$2.10@2.20lb. owing to higher shipment figures, which are said to reach \$1.65lb. c.i.f. New York. Position appears to have reversed, when compared with a month ago.

**Oil Cedarwood**—Has advanced again and now 45c lb. spot is inside for drums, while tins are obtainable at 47c lb. Buying fairly active both for spot delivery as well as for future shipment. Several handlers of this item cannot see any immediate decline, in fact, they think the peak has not been reached as yet. Leaf named at 95c@1.00 lb.

**Oil Citronella**—Ceylon steady at 80c@90c lb. spot in drums, and 83c@93c lb. in tins. Some dealers are looking for easier prices on the arrivals of new crop oil. Java has advanced again and now quoted at \$1.35@1.40lb. spot in drums, and \$1.40@1.45lb. in tins with July shipment named at \$1.19lb. c.i.f. New York, and August at \$1.15lb. Contrary to the belief that new crop material would weaken the price of the oil, the above figures show little difference for later shipments.

**Oil Cloves**—Price has advanced sharply and now quoted at \$1.95@2.05lb. spot in cans, and \$2.05@2.15 lb. in bottles. The oil is following closely the advance in the price.

**Oil Copaiba**—Firm though quiet at 40c@42c lb. spot as to quantity.

**Oil Erigeron**—In small demand at \$1.30@1.40lb. spot as to seller.

**Oil Eucalyptus**—Market has eased off further and now quoted at 50c lb. spot in drums, and 53c@55c lb. in cases owing to slow demand.

**Oil Geranium**—Algerian quoted firm at \$7.75@8.50lb. spot as to seller and quality. Bourbon also firm at \$6.75@8.50lb. with replacements of first quality named at \$7.75lb. c.i.f. New York, compared with \$7.00lb. two months ago. African quiet at \$4.25@4.50lb. spot.

**Oil Lavender**—Spike in small demand at 85c@1.00lb. spot, and U.S.P. goods named at \$4.50@6.00lb.

**Oil Lemon**—Italian quoted lower at 75c@90c lb. spot as to seller and quantity owing to an easing off in demand. Replacements about equal to these figures. American, 75c@80c lb.

**Oil Linaloe**—Mexican scarce at \$3.50@3.75lb. spot.

**Oil Mustard**—In small demand with holders naming \$3.00@3.15lb. spot for the artificial, and \$14lb. for U.S. P. goods.

**Oil Orange**—Italian has declined and now quoted at \$2.75@3.25lb. spot as to quantity and seller. Demand for the past three weeks has not been up to expectations, according to reports. Spanish named at \$2.75@3.00lb., and American, \$3.00@3.10lb.

**Oil Patchouli**—Quoted lower on easier replacement values at \$4.50@5.50lb. spot as to quality.

**Oil Peppermint**—Sellers on spot appear to be worried as to what is happening in Michigan. They do not know whether to sell their supplies, or hang on to them just before the new crop is offered. Spot goods are inside at \$4.00@4.15lb. for natural with some houses holding for \$4.05lb. Redistilled named firm at \$4.25@4.50lb.

**Oil Sandalwood**—In keen competition at \$6.20@6.30lb. spot as to seller for East Indian goods.

**Oil Sassafras**—U.S.P. material easy at \$1.25@1.35lb. spot, and artificial at 34c@36c.

**Oil Wormseed**—Has declined again and is now offered at \$4.25@4.50lb. spot as to holder. Country is also reported weak.

#### Balsams

**Peru**—Demand small with holders naming \$1.80@1.90lb. spot.

**Tolu**—Market has advanced sharply and now quoted at \$1.90@2.00lb. spot as to quantity and seller. Some supplies available at \$1.85lb., but are said to be limited.

#### Vanilla Beans

**Bourbon**—Market remains firm at \$11.50@12.00lb. spot.

#### Aromatic Chemicals

**Benzaldehyde**—Quoted steady at \$1.40@1.50lb. spot for U.S.P. goods, and \$1.50@1.65lb. for FFC material.

**Coumarin**—In active demand at \$3.50@3.75lb. spot by first hands, and \$3.35@3.40lb. from resale quarters.

**Methyl Salicylate**—In good steady demand at 45c@47c lb. spot as to quantity.

**Vanillin**—Some fair sized business reported last week at 49½c@51c. from first hands, and 42½c@47½c. from resale quarters.

Pierre Wertheimer, French perfumer, who arrived on the Berengaria, last week, with Epinard, says he cannot see why a perfume manufacturer can't do for the perfumery business with horses what a tea magnate can do for the tea business with yachts. Before every race Epinard is sprayed with rich perfumes. This makes the other horses think they are at the Tuesday afternoon outing of the Ladies' and Misses' Riding Club. By the time they discover their mistake Epinard has won the race.

Essential oil business is again quiet, and price movements are mostly in buyers' favor, according to "The Chemist and Druggist," London, which says: "French neroli oil is dearer for new crop goods. English distilled clove and juniper berry have also improved. Star anise (c.i.f.), citronella, and lemongrass are a shade easier. Japanese mint is also cheaper. Sicilian orange has declined slightly. Lemon oil is cheaper."

Adulteration of oil coriander with oil anise or anethol is reported in Schimmel & Co.'s "Bericht." The report says that the oil has been passed by chemists, and possesses all the physical and chemical properties of genuine oil, but on evaporation on a paper the odor of anise gradually appears, and on fractional distillation anethol is isolated. The amount of adulteration is said to be as high as 10 per cent.

## MORANA BECOMES CHRIS AGENT IN UNITED STATES AND CANADA

To Be Sole Representative For Big French Essential Oil Manufacturer—Chiris New York Branch to Close—Bruno Court Agency Retained by Morana—Deal Closed by Warren E. Burns in Paris

Morana Incorporated, New York, importers of essential oils, aromatic chemicals, and allied products, have been appointed the American and Canadian agents for Etablissements Antoine Chiris, Grasse, France, manufacturers of floral products, one of the biggest organizations of its kind in the world. The French manufacturers have been represented here for some years by Antoine Chiris Co., a separately incorporated American company. This latter company, which has been the American branch of the French house, with headquarters at 147 Waverly place, New York, will be closed, and its offices and warehouses moved to 118 East 27th street, the Morana headquarters.

The sales agency of Bruno Court, Grasse, France, manufacturers of special flower products, which Morana Incorporated has held for many years, will be retained. The arrangements in the new Chiris-Morana combination were made by Warren E. Burns, treasurer of Morana Incorporated, in Paris. Mr. Burns has just returned from Europe.

The following formal announcement has been issued to the trade by Morana Incorporated: "We take much pleasure in announcing that, for the purpose of facilitating their American business, Etablissements Antoine Chiris, founded in Grasse, France, in 1768, have honored us by appointing us their exclusive agents for the United States and Canada. Assisted by the co-operation of the world-wide organization of Etablissements Antoine Chiris, we will be in an even more favorable position than heretofore to render service to the manufacturers of perfumes, soaps, and flavoring extracts in supplying them with raw materials of unimpeachable quality and integrity. All merchandise bearing the Chiris label will be produced by the various factories of Etablissements Antoine Chiris from primary products grown almost entirely on the Chiris plantations. There can be no better guarantee of quality than this to offer to our customers. The New York offices and warehouse of the Antoine Chiris Company will be removed on August 1 to our headquarters at 118 East 27th street, New York, where inquiries addressed to the Antoine Chiris Company will be given our prompt attention."

Chiris factories, offices, and affiliated companies include the following: Grasse, Paris, and Marseilles; Boufarik, Algeria; London; Les Hesperides, of Reggio and Messina, Sicily; Comptoir Coloniaux Chiris of Shanghai and Chungking, China; of Chapa Loa Kay and Haiphong, Tonkin; of Comores Islands; of Tامة, Madagascar; of St. Denis, Reunion; of Cayenne, French Guiana; of Asuncion, Paraguay. In addition, an American company with five branch offices, a Canadian branch, and a Cuban branch have been maintained. The foundation of Chiris dates back to 1768 in Grasse. The Delawanna, N. J., works, representing the producing end of the American Chiris company, were recently purchased by B. T. Bush, Inc., New York. Burton T. Bush was, until some months ago, president of the American Chiris company.

Judgment for \$212.70 has been filed against Frank Moss, trading as Consolidated Perfumery Co., and Edmond Converse, by the National Surety Co.



## Drug Consuming Industries

### OFFER ALCOHOL USERS NEW AGREEMENT

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., July 23.—Officials of the prohibition unit seem to be satisfied that the stipulation which was sent out to permittees will not be effective and have suggested the use of a rubber-stamp agreement on invoices of alcohol sales. The exact wording of this agreement has not yet been worked out, but the officials believe that a satisfactory arrangement can be made. This seems to be the latest decision in the alcohol fight.

Several conferences have been held with representatives of the alcohol users, but several of those interested are on vacation, and it may be several weeks before the agreement is signed.

Holders of special denatured alcohol permits are receiving letters requesting their agreement to the stipulation. The letter in part is as follows:

"You are requested to acknowledge receipt of this rider and your agreement thereto. If acknowledgment is not received promptly future withdrawals of specially denatured alcohol will be suspended and the facts reported to the Federal Prohibition Commissioner, Washington, D. C., for his action thereon."

Phoenix Chemical Co. has opened offices at 64 Goettingen st., San Francisco, with C. K. Duff in charge.

Plants of the United States Industrial Alcohol Co. are running on practically a capacity basis, according to reports from Baltimore, which say: "Increased buying has been experienced particularly in the last fortnight. The numerous special manufactured products of this company and the United States Industrial Chemical Co., reaching into practically every branch of manufacturing, make it a fair indicator of general industrial conditions. Despite the period of comparative dullness felt by many industries since the close of the Winter, alcohol has maintained a fair volume of business."

Six scholarships at Yale University, including \$500 cash in each case, endowed by Mr. and Mrs. Francis P. Garvan in memory of their daughter, Patricia, have been awarded by the American Chemical Society. Among the 500,000 essays submitted on chemistry by high school students in the United States, the following are the winners: Eugene Brownscombe, Santa Rosa, Calif.; Donald L. Vivien, Phoenix, Ariz.; James Cole Reid, Dallas, Tex.; Oliver Chandler Pittman, Commerce, Ga.; Elton R. Allison, Centralia, Wash.; and Benjamin Nassau, Hartford, Conn.

Powers-Weightman-Rosengarten Co., Philadelphia, has issued a supplementary price-list, which gives declines in citric acid and coumarin, and advances in glycerin and tin protochloride.

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**OIL CASSIA \$1.65 FOR PROMPT SHIPMENT**

Oil cassia has been as low as \$1.28 lb. c.i.f. New York, but now the best price coming out of Hongkong is \$1.65 to \$1.70 lb. When the lower figure was named importers had difficulty in putting through business at this figure. The shipper would advance his price in spite of his previous offer. The primary market is usually governed by the amount of stocks in Hongkong, and by the actual quantity of the oil produced. One of the junks may be within a few hundred yards of its destination, and all the cables coming from Hongkong will quote high prices, but a few minutes after the junk arrives prices drop perceptibly.

Chemical plants of Pennsylvania reporting to the Federal Reserve Bank of Philadelphia indicated that their percentage of employment during June had decreased 3.3 per cent compared with May, and that the total wages paid was 5.4 per cent less than paid in May. The average wages paid was 2.2 per cent less than May. New Jersey plants reported that although employment during June was .4 per cent less than May the total wages paid were .4 greater than May and that the average wages were .9 per cent higher than in May.

Exports of drugs and chemicals from the port of Philadelphia during the first quarter of the year have shown a distinct advance over the exports during the same period of 1923, according to the Philadelphia Chamber of Commerce. Increases in pharmaceuticals exported amounted to \$60,000; paint, pigment and varnish \$356,000; and exports of coal tar advanced from a total of \$2,760,000 in 1923 to \$3,137,000 in 1924.

**MARKET FOR ESSENCES IS STAGNANT**

(Special Correspondence to DRUG & CHEMICAL MARKETS)


Catania, Sicily, July 7.—The market for essences is nearly stagnant, owing to the excessive heat and absence of buyers. Foreign countries are still buying, the United States and England taking advantage of the much higher exchange. The following table shows the fluctuations in prices per Sicilian pound:

	June 1.	June 19.	July 4.
Lemon juice .....	9.55- 9.60	9.35- 9.40	9.35- 9.40
Sweet orange .....	41.00-41.45	39.80-40.15	39.80-40.15
Bitter orange .....	36.30-36.50	34.70-35.10	34.70-35.10
Mandarine .....	84.50-85.10	87.50-90.10	87.50-90.10
Bergamot oil .....	54.80-55.10	55.50-56.10	55.50-56.10

The price of lemon juice declined during the first half of June, but after that was steady, although very little business was transacted. The old product remained weak. Sweet orange oil was high, but has been reduced; also bitter orange oil, for which practically no orders could be booked. Bergamot oil increased in price.

Johnson & Sons, Manufacturing Chemists, London, have filed a suit in the United States District Court, Philadelphia, against William T. MacLeester, for \$20,000, alleging that he revealed to other companies, a process sold to the plaintiff for the manufacture of a chemical used largely in making motion picture films.

Menthol is quoted at \$8.25 lb. c.i.f. New York for Jan.-June, 1925 shipment from Japan, according to Dodwell & Co., New York, importers of Far Eastern products.



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# Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

**CLASSIFICATION**—Prices quoted herein are listed in the following groups: **Chemicals**, including heavy and technical chemicals, fine and medicinal chemicals, aromatic chemicals and isolates, crudes and intermediates from coal-tar, various fine alkaloids and miscellaneous products; **Crude Drugs, Essential Oils**, including oleoresins; **Fatty Oils**, including Animal, Vegetable and Fish Oils, Greases, Fats, and Tallow; **Tanning and Dye Extracts**, including miscellaneous natural tanning woods, extracts, etc. All groups are arranged in straight alphabetical order.

**Packages**—Prices are for large quantities in original packages of the customary trading units of weight or measure. A container given in connection with a price does not necessarily mean that this is the quantity on which the price is based. Containers named are the original packages most commonly sold in this market.

**QUOTATIONS**—Chemical prices quoted herein are those of American manufacturers unless otherwise specified. Quotations on imported chemicals are so designated. Where resale or "second hand" stocks of any chemical products are sufficient to be considered a factor in determining the market, prices for goods in this class will be quoted in addition to makers' prices available, and indicated as such. Chemical prices quoted herein are for goods spot New York or Metropolitan

District, f. o. b. or ex-store, for immediate shipment, unless otherwise specified. Numerous domestic made heavy or industrial chemical products are sold principally on a basis of f. o. b. works, and are thus quoted in the list herein, each instance of a "works" price, however, being specified as such.

Fatty Oils prices quoted herein are for goods spot New York unless otherwise noted; f. o. b. mills and Coast prices being designated as such. Crude Drugs and Essential Oils are quoted f. o. b. New York (Manhattan with limitations) for immediate shipment. Tanning and Dye Extracts are quoted spot New York unless otherwise noted.

**WEIGHTS AND MEASURES**—All quotations are made on a basis of avoirdupois pounds and ounces, and American gallons. The following equivalents are given for the reference of exporters, importers, and foreign buyers:

1 Imperial Gallon (British)	—1.20	American Gallons
1 American Gallon	—	.833 Imperial Gallon
1 American Gallon	—	3.79 Liters
1 Liter	—	.264 American Gallon
1 American Gallon (Water)	—8.35	Pounds
1 Pound (Avoirdupois)	—	.454 Kilogram
1 Kilogram	—	2.20 Pounds

Style and Arrangement Copyright by DRUG & CHEMICAL MARKETS, 1922

## Chemicals

ACETANILID, tech. 150 lb bbls.	.27	.28
100 lb kgs.	.25	.30
USP 200 lb bbls.	.30	.32
Second Hands	.29½	.30
Acetic Anhydride		
85-89%, 107 lb cys.	.40	
90-95%, 100 lb cys.	.43	
C.P. 100 lb cys.	.40	
Acetone, CP 700 lb drs. e/l wks.	.15	.16
700 lb drs. lcl wks.	.15½	.16½
350 lb drs. lcl wks.	.16	.17
Second Hands, spot	.16½	.17
Acetone, 100 gal. drums.	.35	
Acetone Oils, light, drs. wks.	1.40	1.45
Heavy, drs. wks.	1.40	1.45
Acetophenetidin, 150 lb bbls.	1.85	1.90
Acetyl Chloride, 100 lb cys.	.40	.41
ACID, 1, 2, 4, 250 lb bbls.		1.30
Acetic, 28%, 400 lb bbls. e/l wks.		3.12
28%, lcl wks.		3.87
56%, e/l wks.		5.85
56%, lcl wks.		6.10
70%, bbls. e/l wks.		7.20
70%, lcl wks.		7.45
80% coml. bbls. e/l wks.		8.19
80% coml. lcl wks.		8.44
80% pure bbls. e/l wks.		9.98
80% pure lcl wks.		10.23
Glacial, bbls. e/l wks.		11.01
Glacial, lcl wks.		11.26
Glacial USP cys. wks.		11.70
Acetylaldehyde, 220 lb bbls.	.75	.85
Second Hands	.70	.71
Anthranilic, tech., drs.		.94
99-100%, 100 lb drs.		1.00
Benzoic, tech. 100 lb bbls.	.75	
Tech. ton lots	.70	
USP, 100 lb bbls.	.75	.85
Second Hands	.72	.75
Stearic, crys. powd. 250 lb bbls.		.09½
Kegs, 100 lb	.10	.10½
Breunner's 250 lb bbls.		1.25
Butyric, 60% pure 5 lb bot.	.40	.50
C.P. 10 lb bot.	1.25	1.50
Camphoric, USP, VIII 1 lb bot.	5.90	6.00
Carbolic, USP crys. see also Phenol		
112 lb tins	.26	.28
25 lb tins	.28	.30
5 lb tins or bot.	.30	.33
1 lb bot.	.35	.37

Acid Carbolle—(continued)		
Liquid USP, 1 lb bot.	.36	.37
Crude, 25% 50 gal. bbls.	.33	.35
10%, 50 gal. bbls.	.27	.30
Carbonic, see Carbon Dioxide		
Chloroacetic		
mono 100 lb bbls. wks.	.25	
DI, 150 lb cys. wks.	1.00	
Tri, 425 lb bbls. wks.	2.50	
Chlorosulfonic, 1500 lb drs.		
wks.	.15	.16
Chromic, USP 200 lb drums.	.40	
85% Pure, 200 lb drums.	.35	
Chromotropic, 300 lb bbls.	1.35	
Chrysanthemic, see Chrysanthemum		
Cinnamic, 5 lb cans	3.93	
CITRIC, USP crys. 230 lb bbls.	.46	
Ford, USP, 200 lb bbls.	.47	
Imported, crys. 112 lb kegs.	.46	.47
Single kegs	.47½	
Cleava, 250 lb bbls.	1.00	1.10
Cresylic, 95% dark dr. NY.	.63	.65
97-99% pale, dr. NY.	.65	.75
Crude, spot, drums	.55	.60
Diethylbarbituric, Dom., 25 lb lots.		
1 lb bot.	10.00	12.00
Imp. 10 lb lots	3.50	3.75
Formic 85% tech. 140 lb cys.	.12½	.13
90%, 80 lb cys. tons.	.13	.13½
Gallic, USP, 150 lb bbls.	.70	
Gamma, 225 lb bbls. wks.	1.50	
Glycerophosphoric, 25% 1 L. b. b.	1.85	1.95
H 225 lb bbls. wks.	.72	.75
Hydrolic, 10% USP 5 lb bot.	.75	
Hydrobromic, 48% coml. 155 lb cys. wks.	.35	.40
45% coml. 10 cys. wks.	.40	
40% USP 155 lb cys. wks.	.45	.46
10% USP 100 lb cys. wks.	.11	.13
Hydrochloric, see also Acid Muriatic		
CP, USP, 110 lb cys.	.08	.11
HYDROFLUORIC, 30% 400 lb bbls.		
wks.	.07	
30% bbls. e/l wks.	.06	
30% 100 lb cys. wks.	.07	
48% single 100 lb cys. wks.	.11	
48% 10 cys. wks.	.10	
52% 100 lb cys. wks.	.14	
32% 10 cys. wks.	.11	

Acid, hydrofluoric—(continued)		
60% 100 lb cys. wks.	.14	
60% 300 lb dr. wks.	.13	
White Acid, 100 lb cys. wks.	.26	
White Acid, 10 cys. wks.	.25	
Hydrofluosilicic, 35% 450 lb bbls. wks.	.12	
Hypophosphorous, USP 30% 5 gal. demis.	.85	
USP, 10% 5 gal. demis.	.30	
LACTIC, 22% dark 500 lb bbls.	.06	.05½
22% light bbls.	.06	.06½
44% dark, bbls.	.10½	.11
44% light, bbls.	.12½	.13
66% bbls. dark, bbls.	.16½	.17
66% light, bbls.	.26	.26½
USP IX 100 lb cys.	.75	
USP VIII 100 lb cys.	.70	
Laurent's, 250 lb bbls.	.90	
Metanilic, 250 lb bbls.	.60	.65
Mixed sulfuric-nitric		
Drums, wks.	.07%	.08
Drums, wks.	.01	.01½
Tank cars, wks.	.06%	.07
Tank cars, wks.	.009	.01
Molybdic, 85% pure 100 lb kegs.	1.35	1.60
100% C.P. 100 lb kegs.	2.00	2.10
Monosulfuric F, Delta, 50 lb tins		2.20
MURIATIC, 20° cys. lcl		
wks.	1.35	1.75
Cys. e/l wks.	1.20	1.25
Tank cars, wks.	1.00	1.10
18° 120 lb cys.		
e/l wks.	1.00	1.10
Tank cars, wks.	net ton	
22° 120 lb cys.		
e/l wks.	1.75	2.00
Iron, free 20° cys.		
e/l wks.	1.00	1.10
Tank cars, wks.	net ton	
Muriatic, CP & USP, see Acid Hydrochloric		
Naphthilonic, tech. 250 lb bbls.	.62	
Refined, single bbls.	.65	
Neville & Winther's, 250 lb bbls.	1.05	1.10

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# Chemicals

<b>ACID, NITRIC, 36° 135B</b>			<b>ACID, Sulfuric</b>			<b>ALCOHOL—(continued)</b>		
le/l chys. wks.....100B	4.75	: 5.25	le/l wks. ....100B	1.50	: 1.75	Isopropyl, crude 50 gal. drs. gal	...	: 2.25
Chys. c/l wks.....100B	4.50	: 4.75	Drums, c/l wks.....100B	1.25	: 1.50	Refined, 50 gal. drs. ....gal	4.00	: 4.50
38° le/l chys. wks.....100B	5.25	: 5.75	Tank cars, wks.....net ton	17.00	: 18.00	Ref'd, 91% drs.....gal	...	: 3.50
Chys. c/l wks.....100B	5.00	: 5.25	Contract cars, wks.....net ton	...	: ...	Methyl, see Alcohol, Wood		
40° le/l chys. wks.....100B	5.75	: 6.00	Olsum, 40% drs le/l wks.net ton	...	: 40.00	Propyl, nml. crd. 50 gal. drms.gal	...	: 4.40
Chys. c/l wks.....100B	5.50	: 5.75	Olsum, 60% drs. le/l wks.net	...	: ...	Refined, 10B cans.....B	...	: .75
42° le/l chys. wks.....100B	6.25	: 6.75	Sulfurous, USP 6% 100B chys.B	.05	: .06	Denatured		
Chys. c/l wks.....100B	6.00	: 6.25	4% 100B chys.....B	.04	: .05	No. 1 Complete Denat. 188 Proof		
C. P. chys. single wks.....100B	.13	: .16	USP, 5 gal. demis.....B	.06	: .08	50 gal. bbl. incl.....gal	.53½	: .55½
Oxalic, 325B bbls., wks.....B	.09%	: .10	Tannic, tech. 300B bbls.....B	...	: .35	50 gal. drums, extra....gal	.46½	: .48½
Bbls. NY.....B	.09%	: .10	USP, powd. 200B bbls.....B	.75	: .80	No. 1 Special Denat. 190 Proof		
Keps, 100B NY.....B	.10½	: .11½	USP, fluffy, 50B bbls.....B	.75	: .80	50 gal. bbl. incl.....gal	.52½	: .53½
Imp., 560B casks.....B	.09½	: .09%	Tartaric USP cryst 300B bbls.B	...	: .30	50 gal. drums, extra....gal	.45½	: .47½
Phenylchloroacetic, domestic.....B	8.50	: 9.00	USP, powd. 300B bbls.....B	...	: .30	No. 5 Complete Denat. 188 Proof		
Imported, 5 Bz.....B	7.00	: 7.25	Imp. USP, 240B bbls.....B	.27	: .27½	50 gal. bbls. incl.....gal	.51½	: .53½
Phosphoric, 50% tech. 100B			Powd. 240B bbls.....B	.27½	: .28	50 gal. drums, extra....gal	.44½	: .46½
chys. ....B	.08	: .09	Tobias, 250B bbls.....B	.80	: .95	No. 6 Complete Denat. 188 Proof		
USP, Struy 85°, 70B.....B	.16	: .17	Tungstic, 100B keps.....B	...	: 1.00	50 gal. bbls. incl.....gal	.50½	: .52½
Imported.....B	...	: ...	Valeric, C.P., 10B bot.....B	2.50	: 2.75	50 gal. drums, extra....gal	.43½	: .45½
Phthalic, see Phthalic Anhydride			Acortine Alk. cryst. 1 oz. vis.....B	...	: 30.00	In addition to the regular author-		
Picramic, 300B bbls.....B	...	: .65	Amorphous, 1 oz. vis.....B	...	: 20.00	ized formulae for completely dena-		
Pieric, 450B bbls.....B	...	: 50	Adeps. Lanno, hydrous 350B bbls.B	.18	: .23	tured alcohol, some 75 formulae for		
Bbls. car lots wks.....B	.20	: .25	Anhydrous, 350B bbls.....B	.21	: .32	specially denatured alcohol are au-		
Pyrogallic, crys. 5B cans.....B	1.25	: 1.30	Albumen Egg, edible.....B	...	: 1.20	thorized for special uses. Owing to		
Renditimed, 5B cans.....B	1.55	: 1.65	Blood.....B	.40	: .45	the limitations of their use however,		
Tech. powd., 200B bbls.....B	...	: .85	Vegetable.....B	.60	: .70	prices are quoted by the alcohol		
Salicylic, tech., 125B bbls.....B	.32	: .53	Technical, see Dyes Sundries			producers only to holders of per-		
USP, 100B bbls.....B	...	: .35	<b>ALCOHOL, USP 190 pf. 50 gal.</b>			mits allowing the use of specially		
Second Hands.....B	.35	: .34	bbls. ....gal	4.83	: 4.91	denatured formulae in products author-		
Sulfanilic, 250B bbls.....B	.16	: .20	Second Hands, bbls, USP 190			ized by the Dept. of Internal Revenue.		
<b>SULFURIC, 66° 180B chys.</b>			pf. ....gal	...	: ...			
le/l wks.....100B	1.35	: 1.75	Export, USP, 190 pf.....gal	.45	: .83	Aloin, USP, 100B cans.....B	.52½	: .85
Chys. c/l wks.....100B	...	: 1.35	Cologne Spirit, 50 gal. bbls.gal	4.90	: 5.00	Alpha-Naphthol, crude 300B bbls.B	...	: .65
1500B Drums, le/l			<b>WOOD, see Methanol</b>			Refined.....B	...	: .80
wks.....100B	...	: 1.25	Alcohols also 1c 50 gal.			Alpha-Naphthylamine, 350B bbls.B	.35	: .37
Drums, c/l wks.....100B	...	: 1.10	drums extra and returnable.			Ton lots, bbls. wks.....B	...	: .35
Tanks cars, wks.....net ton	14.00	: 15.00						
60° 1500B Drums								
le/l wks.....100B	.75	: 1.00						
Drums, c/l wks.....100B	.65	: .75						
Tank cars, wks.....net ton	8.00	: 10.00						
C. P. 175B chys.....100B	.08	: .09						

# General Chemicals

A MARK OF PLEDGED RESPONSIBILITY



ON PRODUCTS OF STANDARD MERIT

## Ammonia Alum

Sulphuric Acid	Nitric Acid	Salt Cake
Acetic Acid	Aluminum Sulphate	Tin Crystals
Epsom Salt	Aqua Ammonia	Sodium Sulphide
Mixed Acids	Copperas Nitrate Iron	Sodium Silicate
Hydrochloric Acid	Hydrofluoric Acid	Sodium Phosphate

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## Chemicals

<b>ALUM, Ammonia, lump 400 lb bbls.</b>			<b>AMMONIA anhyd. 100 lb cyl....lb</b>			<b>AMMONIUM—(Continued)</b>		
Wks. ....100 lb	3.50	3.65	Water, 26° 800 lb drs. wks....lb	...	.30	Persulfate, 112 lb cases.....lb	.35	.40
Imp., 500 lb casks....100 lb	...	...	Drs. c/l wks.....lb	...	.06%	Phosphate, dibasic 200 lb bbls....lb	...	.38
Ground, 400 lb bbls. wks.100 lb	3.65	3.75	C.P., clys. ....lb	...	.14	Tech., powd. 325 lb bbls....lb	...	.1*
Powd. 380 lb bbls. wks.100 lb	3.90	4.00	Imp., 800 lb drs.incl.spot. lb	...	.06%	Phosphate, mono, 325 lb bbls....lb	...	.12%
Chrome 500 lb cks. wks.100 lb	5.50	6.00	26° 100 lb clys. 1c/l wks....lb	...	.07%	Salicylate, USP 100 lb kegs....lb	.70	.75
Potash, lump 400 lb bbls.	...	...	Clys. c/l wks.....lb	...	.07%	Sulfate, bulk c/l wks....100 lb	2.50	2.60
Wks. ....100 lb	...	4.50	20° 800 lb drs. 1c/l wks....lb	...	.05%	206 lb single bgs. c/l wks.100 lb	2.60	2.65
Bbls. c/l wks.....100 lb	...	4.25	Clys., 1c/l wks.....lb	...	.06%	200 lb double bgs., f.a.s.100 lb	2.60	2.65
Cont. bbls. c/l wks....100 lb	...	4.25	18° 800 lb drs. 1c/l wks....lb	...	.04%	Sulfocyanide, tech. 100 lb kgs....lb	.50	.60
Imp. 650 lb cases s.p....100 lb	...	3.00	Clys., 1c/l wks.....lb	...	.05%	t.F. 25 lb jars	.60	.70
Ground, 400 lb bbls. wks.100 lb	4.35	4.60	16° 800 lb drs. 1c/l wks....lb	...	.04%	Amyl Acetate, tech. 50 gal. drs.gal	2.55	2.75
Imp. 650 lb casks....100 lb	...	3.00	Clys., 1c/l wks.....lb	...	.05%	Refined, 50 gal. drums.....gal	3.00	3.50
Powd., 380 lb bbls. wks.100 lb	4.50	4.75	Ammonium Acetate, 100 lb kegs....lb	...	.37	Alcohol, see Fusel oil	...	...
Chrome, 700 lb cks wks.100 lb	5.50	6.00	Benzoate, USP, 1 lb bot....lb	.90	.95	<b>ANILINE OIL, 900 lb drs.....lb</b>	.16	.17
Soda grd. 400 lb bbls. wks.100 lb	...	4.00	Bifluoride, 300 lb bbls.....lb	.22	.23	Aniline Salt 200 lb bbls.....lb	.22	.23
Bbls. c/l wks.....100 lb	...	3.50	100 lb kegs .....lb	.23	.24	Anthracene, 80-85%, 600 lb casks	.80	.85
Aluminum, metal, c/l NY....100 lb	26.50	27.00	Bromide, 50 lb boxes .....lb	.44	.45	Wks. ....lb	.02	.02%
Chloride, anhyd. 275 lb drs....lb	.30	.32	Imported, 112 lb boxes....lb	.29	.31	28-30%, Imp. ....lb	...	...
Crystals, 375 lb bbls.....lb	...	.08%	Carb., tech. 560 lb casks....lb	...	.08%	Anthraquinone, sublim. 125 lb bbls....lb	1.00	1.15
30% sol. 120 lb clys.....lb	...	.03%	Powd., tech. 385 lb bbls....lb	...	.09	Antimony metal, slabs ton lots 100 lb	8.25	8.50
Hydrate 96% light 90 lb bbls....lb	.17	.18	USP, lump, 100 lb kegs....lb	.12	.13	Needle Powd., 100 lb cases....lb	.07%	.08%
Heavy 82-84%, 220 lb bgs....lb	.06	.06%	Powd., 100 lb kegs....lb	.13	.14	<b>ANTIMONY CHLORIDE, anhyd 1000 lb</b>	...	...
400 lb bbls. wks.....lb	...	.06%	Chloride, Domestic	...	...	dra. ....lb	...	.35
<b>SULFATE, Iron-free bags c/l</b>	...	...	White, 250 lb bbls, c/l ....lb	...	.67%	50 lb crocks .....lb	.45	.48
Wks. ....100 lb	2.25	2.40	250 lb bbls., 1c/l wks....lb	...	.08	Crystals .....lb	.06	.06%
Imported, spot .....100 lb	2.30	2.35	Gray 250 lb bbls, wks....lb	...	.08%	Sol'n, 130 lb carbonyl 32°....lb	...	.03%
Comm'l., 1/4% iron, bgs c/l	...	...	Bbls., c/l wks.....lb	...	.07%	Oxide, 500 lb bbls.....lb	.08	.08%
Wks. ....East 100 lb	...	1.35	Imp. wh. 250 lb casks spot. lb	...	.06%	Salt, dom. 500 lb bbls.....lb	.24	.25
Cont. bgs. c/l wks. E.100 lb	1.30	1.35	Gray 250 lb bbls, wks....lb	...	.08%	Imp., NY .....lb	.18	.19
Bags, c/l wks. W....100 lb	...	1.30	Lump, 500 lb casks spot....lb	.12	.13	Sulfuret, golden 500 lb bbls....lb	...	.31
Bbls., c/l wks. East.100 lb	...	1.50	Ichthyolate, as to brand....lb	4.85	5.00	336 lb kegs .....lb	...	.19
Bulk, c/l cont wks E.100 lb	...	...	Iodide, USP, 25 lb jars.....lb	...	5.20	Crimson, 500 lb bbls.....lb	...	.35
Amidol, (see Diaminophenol)	...	...	Lactate, 500 lb bbls.....lb	.15	.16	336 lb kegs .....lb	...	.36
Amidopyrine, Imp. 10 lb boxes....lb	4.35	4.50	Nitrate, tech. crys. 235 lb bbls....lb	...	...	Red, 500 lb bbls.....lb	...	.45
Domestic, 10 lb boxes.....lb	...	4.60	Refined Crystals, bbls.....lb	.21	.23	336 lb kegs .....lb	...	.42
Aminozobenzene, 110 lb kegs....lb	...	1.15	CP gran. 100 lb kegs....lb	.35	.37	Tartrolactate, 500 lb bbls....lb	...	.46
			Oxalate, pure, 100 lb kegs....lb	.40	.42	Antipyrine, USP, 100 lb cases....lb	2.05	2.15
						Apomorphine Hydrochloride, 1/4 oz. vials	...	21.15
						Arecoline Hybromide, 1 oz. vial....oz	6.25	7.82
						Argols, red powd. 350 lb bbls....lb	.08	.07

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## Chemicals

Acetic, anhyd., 220 lb kegs.....lb	..	46	Benzidine Base, dry 250 lb bbls. lb	..	.80	BISMUTH—(Continued)		
Act. 224 lb kegs cases.....lb	.15	.15½	Benzidine Sulfate, paste 350 lb		.72	Suboxide, 5 lb lots.....lb	..	4.65
White, 550 lb bbls., NY.....lb	.08	.08½	bbls. ....lb	.70		Subnitrate, USP, 250 lb bbls. lb	..	2.90
Asbestine .....ton	16.00	18.00	Benzol, see Benzene			Second Hands, bbls. or less. lb	..	2.90
Aspirin, see Acid Acetylsalicylic			Benzonaphthol, 5 lb boxes.....lb	3.50	3.60	Cones, 1 lb bot.....lb	..	4.09
Atropine, Alk. USP, 1 oz. vial.....oz	5.00	5.57	Benzoyl Chloride, 500 lb drs.....lb	..	1.00	Subsalicylate, USP, 175 lb bbls. lb	..	3.10
Sulfate, 5 oz. case.....oz	..	2.75	Benzyl Acetate, 100 lb chys.....lb	1.55	1.75	Tannate, 1 lb bot.....lb	..	2.60
Single ounce.....oz	..	2.92	Alcohol, 5 lb bot.....lb	1.45	1.55	above on basis 25 lb lots.		
BARIUM BINGXIDE, see Barium dioxide			Benzoate, 5 lb bot.....lb	1.60	1.75	Smaller lots at an advance.		
Carbonate, precip., 800 lb bbls.			Medicinal FFC .....lb	1.75	2.00	Blanc Fixe, dry 400 lb bbls. ton	75.00	80.00
wks. ....ton	64.00	66.00	Chloride, 95% tech. 925 lb drs. lb	..	.25	Imported, bbls. ....ton	70.00	72.00
Precip., 200 lb bbls., wks. ....ton	64.00	66.00	100 lb chys. ....lb	.25	.30	Paste, 650 lb bbls. ....ton	50.00	55.00
Imports, bbls., spot ..ton	60.00	61.00	Red-still. 160 lb chys.....lb	.40	.45	BLEACHING POWDER, 700 lb drs.		
Chloride, 800 lb bbls., wks. ....ton	90.00	95.00	Formate, 1 lb bot.....lb	3.00	3.25	c/l wks. ....100 lb	..	1.90
200 lb bbls. wks. ....ton	90.00	92.50	Berberine Hydrochloride, 1 lb bot.....lb	..	22.50	Drums 1c/l ex-warehouse.....100 lb	2.35	2.60
Import, bbls., spot ..ton	79.00	81.00	Sulfate, acid or neut. 1 lb bot. lb	..	22.00	Contract, c/l wks. ....100 lb	1.90	2.15
Dioxide, 83% 690 lb drs.....lb	.17	.18	BETA-NAPHTHOL, 350 lb bbls. wks. lb	..	.26	Drums, 1c/l wks. ....100 lb	2.05	2.30
Import, 86-88% 400 lb drs. lb	..	.15	Sublimed .....lb	.55	.60	Imported, spot .....100 lb	..	..
Hydrate, 500 lb bbls.....lb	..	.05	Beta-Naphthylamine, tech. 200 lb		.67	Blue Ointment, see Mercury		
Iodide, 5 lb bot.....lb	..	5.15	bbls. ....lb	.45		Mass, see Mercury		
Nitrate, 700 lb cases.....lb	..	.10	Sublimed, 200 lb bbls.....lb	..	1.35	Bone Ash, 100 lb kegs.....lb	.06	.07
Import cases.....lb	..	.08½	Bichloride Mercury, see Mercury Bichloride			Black, 200 lb bbls.....lb	..	.06
Sulfocyanide 400 lb bbls.....lb	..	.35	BISMUTH metal, 150 lb cases.....lb	2.50	2.65	Borax, USP, crys. 400 lb bbls. lb	.05	.05½
Barytes, floated 350 lb bbls wks. ton	23.00	26.00	Sublimed, 200 lb bbls.....lb	..	1.35	Powdered, USP, 300 lb bbls.....lb	.05	.05½
Imported .....ton	29.00	33.00	Bichloride Mercury, see Mercury Bichloride			Kegs, USP, 100-150 lb .....lb	.05½	.05½
Bay Rum, Porto Rican, genuine			BISMUTH metal, 150 lb cases.....lb	2.50	2.65	Bordeaux Mixture, 10% pd. lbs. lb	.11½	.18
Medicated salicyl. acid or tartar			Second Hands .....lb	2.50	2.60	Paste, bbls. ....lb	.08	.10
45 gal. bbls.....gal	1.20	1.25	Ammon. Citrate, USP 5 lb bxs. lb	..	5.85	Boracal. 1 lb bot.....lb	..	3.50
Medicated quinine sulf. 45 gal.			Betanaphtholate, 5 lb bxs. lb	..	8.30	Bromide, see potass. bromide, etc.		
bbls. ....gal	1.20	1.25	Citrate, USP 5 lb bxs.....lb	..	8.00	Bromine, bot in 60 lb cs. wks. lb	..	.39
Domestic synthetic, 50 gal.			Nitrate, 25 lb jars .....lb	..	2.00	Bromobenzene, 600 lb drums.....lb	.40	.42
bbls. ....gal	.90	1.00	Oxychloride, 250 bbls.....lb	..	3.50	Bromoforn, USP 5 lb bot 50 lb cs. lb	..	1.65
St. Thomas			Phenolsulfonate, 5 lb cans.....lb	..	3.30	Brucine Sulfate, 100 ozs.....oz	.15	.36
Medicated salicyl. acid or tartar			Salicylate, 250 bbls.....lb	..	1.95	Butter of Antimony, see Antimony Chloride		
emetic, 50 gal. bbls. gal	1.20	1.25	Subcarbonate, USP, 250 bbls. lb	..	3.40	CADMIUM, metal 100 lb bxs.....lb	.95	1.00
Benzaldehyde, tech. 945 lb drs.			X-Ray diag. 1 lb bot.....lb	..	3.93	Bromide, 50 lb cases jars.....lb	..	1.20
wks. ....lb	.70	.75	Subgallate, USP, 175 lb bbls. lb	..	2.40	Iodide, 10 lb bot.....lb	..	4.45
USP. 40 lb chys.....lb	1.40	1.50				Sulfide, cs. ....lb	1.50	1.60
FFC, 40 lb chys.....lb	1.50	1.65						
BENZENE, 90% 8000 gal. tanks								
wks. ....gal	..	.23						
110 gal. drs. wks.....gal	..	.28						
Pure. Tanks, wks.....gal	.24	.25						
110 gal. drs. wks.....gal	..	.30						

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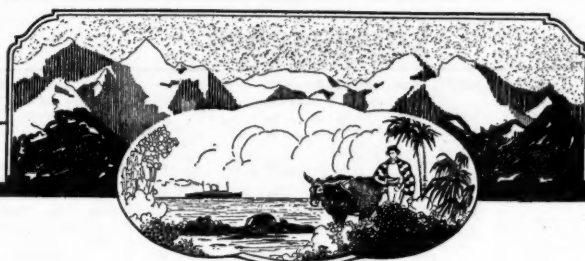
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	Crude and Refined Sulphur	

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Materials of All Kinds**

## Chemicals

CAFFEINE ALK, USP 5D cans...D	3.50	: 3.75	CAMPOR, Amer. ref. 250D	...	: .88	Chalk, drop 175D bbls.....D	...	: .03%
Second Hands.....D	3.40	: 3.50	bbls.....D	...	: .88	Precip. light 250D cks.....D	...	: .04%
Hydrochloride, 1D bot.....D	6.05	: 6.55	2 1/2 D slabs, 100D cs.....D	...	: .89 1/4	Precip. heavy 500D cks.....D	...	: .03%
Sulfate, 1D bot.....D	5.40	: 5.90	1D cakes, 100D cs.....D	...	: .89 1/4	Bulk.....ton	5.00	: 8.00
Citrate, 25D cans.....D	2.90	: 3.10	1 cs. tab., 1D ctns.....D	...	: .93 1/4	Precip. English, 7D bags.....D	...	: .07%
Hydrobromide, 1D bot.....D	4.65	: 4.90	100D cs.....D	...	: .94	Charcoal, Bone, see bone black		
CALCIUM Acetate, 150D bgs, c/l			1/2 cs. tab., 1D ctns.....D	...	: .94	Wood, powd. 100D bbls.....D	...	: .04
100D.....D		: 3.00	100D cs.....D	...	: .94	Willow, powd. 100D bbls.....D	...	: .06
Arsenate, 100D bbls. c/l wks. D	...	: .09 1/4	Jap. ref., 2 1/2 D slabs, 100D	...	: .71	China Clay, Dom., crude.....ton	6.00	: 8.00
Bromide, 100D cs.....D	...	: .50	cs.....D	...	: .73	Washed & Ground.....ton	8.00	: 15.00
Carbide, 220D dr. c/l wks. D	...	: .04 1/4	1 cs. tab., 100D cs. 1D	...	: .92	Imp., Filler Clay.....ton	12.00	: 15.00
Drums, 1c/l wks.....D	...	: .05	tins.....D	...	: .92	Coating.....ton	18.00	: 20.00
Carbonate, tech. 100D bags			1/2 cs. tab., 100D cs., 1D	...	: .93	Chloral Hydrate, USP 100D dra. D	...	: .75
c/l.....100D	1.00	: 1.10	tins.....D	...	: .93	25 lb jars.....D	...	: .83
USP, precip. 175D bbls.....D	...	: .04	Chinese ref. 2 1/2 D slabs 100D	...	: .58	Chinoidin, 140D drs.....D	...	: .55
Chloride, solid, 650D dra. c/l	...	: 24.50	cs.....D	...	: .60	Chloramine-T, 5D bot.....D	1.25	: 2.50
f.e.b. NY.....ton	...	: 23.00	Crude, 100D cs.....D	...	: 1.75	Chlorosane, 5D bot.....D	...	: .55
Imp. shipment.....ton	...	: 30.50	Campor, Monobrom., 100D cs. D	...	: 1.85	Chlorhydric, Ethylene anhyd., 600D	...	: .75
Gran., 350D dra. c/l f.e.b.	...	: 30.50	Caramel, 50 gal. bbls.....gal	...	: .70	dra.....D	...	: .35
NY.....ton	...	: 30.50	Carbazol, 250D bbls.....D	...	: .50	40% soln. 100D ctyr.....D	...	: .30
Flake 330D dra. c/l dra. f.e.b.	...	: 13	Carbon Bisulfide, 500D dra. 1c/l NY D	...	: .06 1/4	CHLORINE, Liquid 3000D cyl.	...	: .04 1/4
NY.....ton	...	: 30.50	c/l drums, NY.....D	...	: .06	c/l wks.....D	...	: .04 1/4
Anhyd., 350D dra. f.e.b. NY D	...	: 13	Carbon Black, 12 1/2 D bags.....D	...	: .15	Tank car lots, wks. Contract.....D	...	: .05 1/4
Glycerophosphate, 250D bbls. D	1.50	: 1.80	Carbon Dioxide, Liquid, 20-25cyl. D	...	: .06	100D cyl. c/l.....D	...	: .06 1/4
Hydrate, (see Lime)			Carbon Tetrachloride, 1400D dra.	...	: .07	100D cyl. 1c/l wks.....D	...	: .06 1/4
Hypophosphite, USP, 25D cans D	...	: .60	NY.....D	...	: .07 1/4	100D cyl. 1c/l ex-warehouse.....D	...	: .08
Iodide, 5D bot.....D	...	: 4.40	Drums, c/l NY.....D	...	: .07 1/4	Chlorobenzene, mono. 1000D dra.	...	: .10
Lactate, tech. 500D bbls.....D	...	: .13 1/4	700D drs. single NY.....D	...	: .08	wks.....D	...	: .08
U.S.F.....D	...	: .50	Carmine, No. 40 5D boxes.....D	4.75	: 4.85	Dra. c/l wks.....D	...	: .08 1/4
Nitrate, 220D bbls. c/l NY ton	...	: 40.00	Casein, edib., 100D keg.....D	...	: .45	Tank car lots wks.....D	...	: .08
Phosphate, tech. 350D bbls. D	...	: .09	Technical, 200D bbls.....D	...	: .10 1/4	CHLOROFORM, USP 50D dra. D	...	: .35
Phosphate, precip. tribasic 200			Castoreum, 1D boxes.....D	4.00	: 4.50	Second Hands, 650D drs.....D	...	: .33
D bbls, wks.....D	...	: .11	Castor Oil, USP 50 gal. bbls.....D	...	: .16 1/4	Technical, 650D drums.....D	...	: .32
Phosphate, mono, 325D bbls. D	...	: .07	Cases, 80D 2 tins.....D	...	: .17 1/4	Chlorophyll, Oil Sol.....D	2.50	: 2.75
Sulfocarbide, 100D kegs.....D	...	: .55	Tech. see Fixed Oils			Water Sol.....D	3.75	: 4.00
Calomel, see Mercury			Caustic Potash, see potash, caustic			Chromium Acetate, 20° soln. 400D	...	: .07
			Soda, see soda, caustic			bbls.....D	...	: .30
			Cellulose Acetate, 100D cases.....D	1.75	: 2.00	Fluoride, Powd. 400D bbls.....D	...	: .30
			Cerium Oxalate, USP 100D kegs D	.35	: .38	Soln. 400D bbls.....D	...	: 4.50
						Chrysocollin, USP, 5D cans.....D	...	: .60
						Cinchonidin alk., powd. 100 cs. tins	...	: .65
						Crystal.....cs	...	: .40
						Sulfate, 100cs. tins.....cs	...	: .40

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## Chemicals

Cinchonine alk., pvd. 100oz. tinsos	...	.38	COPPER metal electrolytic c/1			Diethyl Sulfate tech. 50gal. drs. lb	.30	...	.36
Crystal	.....oz	.43	NY	.....100lb	12.37	CF drums	.....lb	.40	.50
Sulfate, 100 oz. tinsos	.....oz	.25	Lake, c/1 NY	.....100lb	12.50	Digitalin, Pure, 1 oz. vial	.....oz	9.75	10.25
Citric Acid, see Mercury			Casting, c/1 NY	.....100lb	12.25	Dimethylaniline, 840 lb drs. wks. lb	.35%	...	.37
Coal Tar, See Tars			Carbonate, 400 lb bbls.	.....lb	.18	Dimethylsulfate, 100 lb drs.	.....lb	...	.50
Cobalt metal, 100 lb kegs.	.....lb	3.00	Chloride, 250 lb bbls.	.....lb	.25	Dinitrobenzene, 400 lb bbls.	.....lb	.16	.17
Cobalt Oxide, 500 lb bbls.	.....lb	2.10	Cyanide, 100 lb drs.	.....lb	.45	Dinitrochlorobenzene, 400 lb bbls.	.....lb	.18	.19
10 lb tins, 200 lb cases.	.....lb	2.45	Iodide, 5 lb bot.	.....lb	5.65	Dinitronaphthalene, 350 lb bbls.	.....lb	.32	.34
COCAINE alk., USP, 1 oz. vial.	.....oz	10.00	Oxide, red 100 lb bbls. ton lots lb	.16%	.17	Dinitrophenol, 350 lb bbls.	.....lb	...	.40
Hydrochloride, USP—1 oz. vials.	.....oz	7.07	Sub-Acetate, verd. 440 lb bbls.	.23	.23	Dinitrotoluene, 300 lb bbls.	.....lb	.18	.19
25 oz.	.....oz	7.50	SULFATE, crys. 450 lb bbls. lb/1			Dionin, see Morphine, Ethyl			
In 1/2 oz. vials	.....oz	7.50	spot	.....100lb	4.60	Diphenylamine, 250 lb bbls.	.....lb	.48	.50
In crystals, granular, powder, or flaky crystals as desired.			Carlots, bbls. f.o.b. NY	100 lb	4.40	Diphenylguanidine, 170 lb bbls.	.....lb	1.10	1.15
Cocoa Butter, bulk, 200 lb bales. lb	.26	.36%	Carlots, bbls. delivered	100 lb	4.75	Dover's Powder, USP 5 lb tins	.....lb	2.20	2.30
Fingers, cakes, etc. 12 lb bxs.	.....lb	.33	Imp. 550 lb cks spot	100 lb	4.00	Duboisine Sulfate, 1 oz. vial	.....oz	...	30.07
CODEINE, alk., 1 oz. vials.	.....oz	9.27	Powdered, 350 lb 5 bbls.	.....lb	5.50	EARTH, Diatomaceous, see Kieselguhr			
lots	.....oz	9.27	Copperas, bulk c/1 wks.	.....ton	15.00	Emetine alk., 15 gr. vials	.....oz	...	1.30
Hydrobromide, 1 oz. vials, 10 oz. lots	.....oz	7.42	200 lb bgs, c/1 wks.	.....ton	18.00	Hydralide, USP 1 oz. vial	.....oz	17.00	17.50
Hydrochloride, 1 oz. vials, 10 oz. lots	.....oz	8.27	400 lb bbls. c/1 wks.	.....ton	20.00	15 gr. vials	.....oz	...	.75
Nitrate, 1 oz. vials, 10 oz. lots	.....oz	8.27	Powdered, 350 lb 5 bbls.	.....lb	1.90	EPSON SALT, tech. 300 lb bbls.			
Phosphate, 1 oz. vials, 10 oz. lots	.....oz	6.97	Sugar, 400 lb bbls.	.....100lb	1.25	NY	.....100lb	...	2.15
Salicylate, 1 oz. vials, 10 oz. lots	.....oz	6.97	Corn Syrup, 42 deg. 50 gal.	.....lb	4.06	Bbls. c/1 NY	.....100lb	...	2.00
Sulfate, 1 oz. vials, 10 oz. lots	.....oz	7.42	bbls.	.....100lb	4.11	100 lb bgs, c/1 NY	.....100lb	...	1.75
Small Sizes, 1/2 oz. vials, 50c extra, 1/4 oz. 30c extra, singles 7c extra per oz.—25 oz. lots, 10c oz. cheaper than above. Less than 10 oz. 15c oz. higher than above.			43 deg. 50 gal. bbls.	.....100lb	4.15	Imp. 220 lb bgs. c/1	.....lb	...	1.40
COD LIVER OIL, Norwegian, 30 gal. bbls.	.....bbl	20.50	44 deg. 50 gal. bbls.	.....100lb	4.25	NY	.....100lb	...	2.50
Newfoundland, 30 gal. bbls.	.....bbl	...	45 deg. 50 gal. bbls.	.....100lb	4.25	USP, 300 lb bbls, 10 bbls.	.....100lb	...	2.15
Colchicine alk USP 1 oz. vial	.....oz	15.07	Corn Sugar, see Glucose			Carlots, bbls.	.....100lb	...	2.00
Salicylate, 1 oz. vial	.....oz	15.07	Cotton Soluble, 100 lb bbls. wet. lb	.40	.42	Imported, 400 lb bbls.	.....100lb	...	2.25
Colloidal USP 30 lb drums	.....lb	.32	Coumarin, 25 lb tins	3.40	3.65	100 lb kegs	.....100lb	...	6.00
			Second Hands	3.35	3.40	Ergotin, Roujean, 1 lb jars	.....lb	6.00	6.35
			CREAM TARTAR, USP, 300 lb bbls.	.21%	.21%	Eserine alk., 1 oz. vial	.....oz	...	24.07
			Imp. powd. USP, 224 bbls.	.26%	.29%	Salicylate, USP 1 oz. vial	.....oz	10.07	11.07
			Creosote, USP, 42 lb chys.	.42	.45	Sulfate, USP VIII, 1 oz. vial	.....oz	...	.13
			Carbonate, 1 lb bot. 25 lb drs.	1.70	1.80	ANESTHETICS, 55 lb drums	.....lb	...	.16
			Creosote Oil, 50 gal. drs.	.28	.30	ESP, 1880 55 lb drums	.....lb	...	.40
			Cresol, USP, 400 lb drums	.22	.23	Washed, 55 lb drums	.....lb	...	.32
			Cyanamide, bulk c/1 wks, Amm. unit	1.90	2.00	Motor, 1 lb cans	.....lb	...	.24
			DIAMINOPHENOL, 100 lb kegs.	...	3.80	Ether, Nitrous, 1 lb bot.	.....lb	.92	.95
			Dianilidine, 100 lb kegs.	4.00	4.50	Ethyl Benzyl Aniline, 300 lb drs.	.....lb	...	1.35
			Dichlorobenzene, 1000 lb drs.	.06	.07				
			Diethylaniline, 850 lb drs.	.58	.65				
			Diethyl Phthalate, 25 lb cans.	.50	.55				
			1000 lb drs.	.40	.45				



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## Chemicals

JALAP RESIN, lump 5 lb tins...lb	3.25	: 3.35	Linalool, 5 lb bot...lb	6.25	: 6.75	Manganese—(continued)		
Powd. tins...lb	3.40	: 3.50	Litharge, see lead oxide			Glycerophosphate, 5 lb tins...lb	...	: 3.10
Kapoc, 200 lb double bales...lb	.25	: .26	Lithium Carb. USP, 100 lb kgs...lb	1.50	: 1.60	Hypophos. USP VIII 5 lb cans...lb	...	: 1.40
KIESELGUHR, 95 lb bags NY...ton	60.00	: 70.00	Bromide, 100 lb cs...lb	1.75	: 1.85	Iodide, 1 lb bot...lb	...	: 6.65
LANOLIN, see Adeps Lanæ			Citrate, USP, 100 lb kgs...lb	1.70	: 1.75	Ore, bulk, NY...lb	.40	: .45
LEAD, metal c/l NY...100 lb	6.95	: 7.00	Iodide, 5 lb bot...lb	...	: 7.50	Sulfate, 600 lb casks NY...lb	...	: .08
Acetate, white crystals 500 lb			Lithopone, 400 lb bbls, 1 c/l wks...lb	...	: .06%	Marble Flour, bulk...ton	10.00	: 12.00
bbls. wks...lb	...	: .14%	Bbls. c/l wks...lb	...	: .06%	See also Calcium Carbonate		
100 to 250 lb kgs. wks...lb	...	: .15	Bags, c/l wks...lb	...	: .06%	MENTHOL, USP, 60 lb cases...lb	...	: 10.75
White, broken, bbls, wks...100 lb	...	: 13.90	Imported, 400 lb bbls...lb	...	: .05%	Less cases, 5 lb tins...lb	...	: 11.25
White, gran., bbls, wks...100 lb	...	: 14.15	Litmus Cubes...lb	.90	: 1.00	Domestic, USP, 60 lb cases...lb	10.50	: 10.75
White, powd., bbls, wks...100 lb	...	: 15.25	Luminal, see Phenylethylmalonylurea			MERCURY, metal 75 lb flask...flask	71.00	: 72.00
Brown, broken, bbls...lb	...	: .15%	MAGNESITE, crude...ton	...	: 15.00	Less Flasks, 5 lb jugs...lb	...	: 1.10
Kegs, wks...lb	...	: .13%	Calcined, 500 lb bbls...ton	...	: 55.00	Bichloride, cryst. 25 lb bxs...lb	...	: 1.13
USP, 100 lb kgs...lb	...	: .16%	Magnesium mtl., sticks 100 lb cs...lb	1.25	: 1.30	Gran. powd., 200 lb kgs...lb	...	: .98
Arsenate, 100 lb bbls, 1 c/l wks...lb	.21	: .26	Carb. tech. 70 lb bags NY...lb	.08	: .08 1/2	Bisulfate, 25 lb boxes...lb	...	: .96
Bbls. c/l wks...lb	.19	: .20	75 lb bbls, NY...lb	.09 1/2	: .10 1/2	Blue Mass, 25 lb boxes...lb	...	: .66
Paste, 100 & 600 lb bbls...lb	.10	: .15	USP, 60 lb bbls...lb	.12	: .14	Powdered, 25 lb boxes...lb	...	: .68
Iodide, USP VIII 5 lb bot...lb	3.20	: 3.40	USP, blocks 100 lb cs. 1, 2, 4	...	: .19	Blue Ointment, USP 25 lb cans	...	: .81
Nitrate, 500 lb bbls, wks...lb	...	: .12	ozs...lb	...	: .23	50%...lb	...	: .61
Oxide, lithge, 500 lb bbls...lb	...	: .10	Chloride, fused 575 lb drs. c/l	...	: 34.00	USP, dilute 25 lb cans 30%...lb	...	: .69
100 lb kgs, wks...lb	...	: .11 1/2	wks...ton	...	: 36.00	33 1/4% Mercury...lb	...	: 1.22
Oxide, red 500 lb bbls, wks...lb	...	: .10	Flaked, 350 lb drs. wks c/l ton	...	: 28.00	Citrine Ointment 25 lb jars...lb	...	: .51
100 lb kgs, wks...lb	...	: .09%	Imp., fused 900 lb bbls NY...ton	28.00	: 28.00	Iodide, green 25 lb jars...lb	...	: 4.10
Peroxide, 100 lb drs...lb	.25	: .30	Fluocilicate, crystals 400 lb bbls	...	: .12	Red, USP 25 lb jars...lb	...	: 4.20
White, basic carb. 500 lb bbls	...	: .09 1/2	wks...lb	...	: .07	Yellow, USP VIII 25 lb jars...lb	...	: 4.10
Bbls. c/l wks...lb	...	: .09 1/2	30% soln. 500 lb bbls, wks...lb	.07	: .07 1/2	Oxide, Yellow, USP, 25 lb. bxs...lb	...	: 1.68
100 lb kgs wks...lb	...	: .14 1/2	Soln. bbls. c/l wks...lb	...	: .06	Red Precip. USP, 25 lb bxs...lb	...	: 1.38
White, sulfate 500 lb bbls, wks...lb	...	: .08%	Glycerophosphate, 5 lb tins...lb	...	: 3.40	Powder, USP 25 lb bxs...lb	...	: 1.48
Bbls. c/l wks...lb	...	: .08%	Hypophosphite, 5 lb cans...lb	...	: 1.05	White Precip. USP 25 lb bxs...lb	...	: 1.84
Licorice Ext. Mass, cases...lb	.25	: .26	Oxide, USP light 100 lb bbls...lb	...	: .42	Powdered, USP 25 lb bxs...lb	...	: 1.39
Compound powder, bbls...lb	.11	: .13	USP, heavy 250 lb bbls...lb	...	: .50	With chalk, USP 25 lb bxs...lb	...	: .66
Powdered...lb	.38	: .40	Peroxide, 5 lb cans...lb	...	: 2.40	Meta-Nitraniline...lb	.78	: .80
Sticks, 1 cs. 100 lb cases...lb	.45	: .50	Perborate, 1 lb tins...lb	...	: 3.62	Meta-Nitro-para-Toluidine, 300 lb	...	: 2.20
LINE (Salts, see Calcium Salts)			Salicylate, 100 lb kgs...lb	.70	: .75	bbls...lb	...	: .90
Live, 325 lb bbls. ton lots, wks...lb	...	: .01 1/2	Sulfate, see Epsom Salts			Meta-Phenylendiamine, 300 lb	...	: .93
Single bbl. wks...lb	...	: .01%	Manganese Chloride, 600 lb csk.	...	: .09 1/2	bbls...lb	.90	: .93
Hydrated, 167 lb bbl, ton lots,	...	: .01%	Borate, NY...lb	.09 1/2	: .10	Meta-Toluylenediamine, 300 lb	...	: .82
wks...lb	...	: .01%	100 lb kgs...lb	...	: .24	bbls...lb	.82	: .85
Single bbl. wks...lb	...	: .01%	Dioxide, 80-84% 900 lb bbls	...	: 85.00			
Oyster Shell, 150 lb bbl. single...lb	...	: .03 1/2	NY...ton	80.00	: 85.00			
125 lb bag...lb	...	: .08 1/2	85-90% 900 lb bbls NY...ton	85.00	: 90.00			
Sulfur, dry 200 lb drs. NY...lb	...	: .08 1/2	Hydrated, precip. 100 lb kgs...lb	.15	: .20			
Drs. c/l NY...lb	...	: .08						
33% Soln. 50 gal. bbls, NY gal	.15	: .16						

## ACETATES

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## Chemicals

<b>METHANOL (Wood Alcohol)</b>			Musk Ambrette, 1 lb cans.... lb			15.00	16.00	Ortho-Toluidine, 350 lb bbls.... lb			.13	.15
95%, tanks	gal	.67	<b>NAPHTHA</b> , Solvent, 110 gal. dra.			.30	.31	Oxgall, USP, 5 lb bot.... lb	2.00	3.90		
Drums, c/l	gal	.70	wks.			.25	.26	Purified, 5 lb bot.... lb	1.50	2.50		
Drums, 1c/l	gal	.72	8000 gal. tank cars wks. gal					Crude, 5 lb bot.... lb	.80	1.25		
97% tanks	gal	.69	<b>NAPHTHALENE</b> , Flaks, 175 lb bbls.					<b>PALLADIUM</b> , metal 10 oz. lots, oz	75.00	76.00		
Drums, c/l	gal	.73	wks.					Pancreatin, USP 5 lb bot.... lb	1.25	1.40		
Drums, 1c/l	gal	.74	Bbls. c/l wks.			.06	.06	Papain, 10 lb bot. USP, Pwdr.... lb	2.15	2.25		
Pure, Acetone free, tks.	gal	.75	Bbls., second hands NY.... lb			.05 1/4	.05 1/4	Crude, 150 lb cases.... lb	1.80	1.85		
Drums, c/l	gal	.77	Balls, 250 lb bbls. wks.			.07	.07	Paraffin, ref'd 200 lb ca. slabs				
Drums, 1c/l	gal	.80	Bbls., c/l wks.			.06 1/4	.07	123-127 Deg. M. P.... lb	.05 1/4	.06		
solis. incl. 5c higher			Bbls., second hands NY.... lb			.05 1/4	.06	128-132 Deg. M. P.... lb	.05 1/4	.06 1/4		
<b>Methyl Acetone</b> , 100 gal. drums gal	.75	.80	Crushed, chipped, bgs., wks.			.05	.05 1/4	133-137 Deg. M. P.... lb	.06 1/4	.07		
Tanks, cars	gal	.70	Crude, imp., bags			.02 1/4	.03	138-140 Deg. M. P.... lb	.07 1/4	.07 1/4		
Chloride, 90 lb cpl.	lb	.50	<b>Nickel Metal</b> , electrolytic 100 lb					<b>Para-Aminacetanilid</b> , 100 lb				
Salicylate, USP, 50 lb cases.... lb	.47	.45	kags			.29	.30	kags	1.10	1.15		
500 lb drums	lb	.45	Ingot, 100 lb kags			.11	.12	<b>Para-Aminophenol</b> , 100 lb kags.... lb	1.15	1.25		
Second Hands, cases	lb	.44	Salt, single 400 lb bbls. NY.... lb			.10	.11	Hydrochloride, 100 lb keg.... lb	1.35	1.40		
<b>Methylene Blue</b> , tech. 100 lb kgs. lb	1.25	1.50	Double, 400 lb bbls. NY.... lb			.40	.42	<b>Para-Dichlorobenzene</b> , 150 lb bbls.				
USP, medicinal 5 lb cans.... lb	2.00	2.30	Oxide, 100 lb kags NY.... lb			.07	.07	wks.	.17	.20		
Michler's Ketone, 225 lb bbls.... lb	3.75	3.75	Sulfate, 450 lb bbls.... lb			1.35	1.90	25-50 lb kags	.18	.22		
Milk, powd. 150 lb bbls.... lb	.14	.15	Nicotine, Free 40%, 8 lb tins.... lb			1.05	1.25	Paraldehyde, 100 gal. dra.... lb		.48		
Milk Sugar, see sugar of milk			Sulfate, 10 lb tins, 40%.... lb			5.50	6.00	Paraformaldehyde, USP 100 lb ca. lb	.42 1/4	.45		
Mineral Oil, see oil mineral			Nitro Cake, bulk wks.... ton			13.00	14.00	<b>Para-Nitroacetanilid</b> , 300 lb				
Mineral Rubber	ton	35.00	500 lb bbls.					bbls.	.55	.60		
Monocresline, 100 gal. drums.... lb	.50		Nitrobenzene, crude, 1000 lb dra.			.09	.09 1/4	<b>PARA-NITROANILINE</b> , 300 lb bbls.	.68	.73		
Monochlorobenzene, see chlorobenzene			wks.			.09 1/4	.10 1/4	wks. ton	.20	.30		
Monomethylamine, 900 lb dra.... lb	1.25	1.50	Redistilled, 1000 lb dra. wks. lb			.20	.21	<b>Para-Nitrochlorobenzene</b> , 1200 lb dra.				
Monomethyl paramidophenol sulfate			Nitronaphthalene, 550 lb bbls.... lb			.14	.15	wks.	2.75	2.85		
100 lb dra.... lb	3.95	4.20	Nitrotoluene, mixed 1000 lb dra.			.03 1/4	.03 1/4	<b>Para-Nitro-ortho-Toluidine</b> , 300 lb	.68	.70		
<b>MORPHINE</b> Sulfate, USP 5 oz. tins			wks.					bbls.				
10 oz.	oz	6.95	Ochre					<b>Para-Nitrophenol</b> , 185 lb bbls.... lb				
Acetate, 5 oz. tins 10 oz. lots	oz	6.95	Oil Fuel, see Fuel Oil			1.00	1.25	<b>Para-Nitrosdimethylaniline</b> , 120 lb				
Hydrobromide, 5 oz. tins 10 oz. lots	oz	6.95	Oil MINERAL, wh. 50 gal. bbls. gal					bbls.		.95		
Hydride, 5 oz. tins 10 oz. lots	oz	6.95	Oil Mirbane, see nitrobenzene					<b>Para-Nitrotoluene</b> , 350 lb bbls.... lb		.47		
Diacetyl Alk., 1/4 oz. via. 10 oz.	oz	10.75	Opium, see crude drugs					<b>Para-oxy Benzaldehyde</b> , 100 lb	1.50	1.60		
Hydride, 1/4 oz. via. 10 oz. via.	oz	9.75	Orange Mineral, 800 lb cases NY.... lb			.14 1/4	.14 1/4	<b>Para-Phenetidin</b> , 500 lb dra.... lb	1.55	1.80		
Ethyl Hydride, 1/4 oz. via. 10 oz.	oz	10.95	500 lb bbls. NY.... lb			2.40	2.50	<b>Para-Phenylenediamine</b> , 350 lb	1.35	1.40		
Small Sizes: 1/4 oz. vials, 50c extra;			Ortho-Aminophenol, 50 lb kags.... lb					bbls.	.40	.41		
1/4 25c extra; single oz. via., 7c ex.			Ortho-Anilidine, 100 lb dra.... lb			.06	.08	<b>Para-Toluene-Sulfonamide</b> , 175 lb				
tra, over price for 5 oz. tins, 25 oz.			Ortho-Dichlorobenzene, 1000 lb dra.			.35	.40	bbls.	.13	.30		
lots in 5 oz. tins, 10c. or lower than			wks.					<b>Para-Toluene-Sulfonchloride</b> , 410 lb	.80	.85		
above schedule. Less than 10 oz. lots			Ortho-Nitrophenol, 350 lb dra.... lb					bbls.				
15c. or higher than above schedule.			Ortho-Nitrotoluene, 1000 lb dra.			.10	.11	<b>Para-Toluidine</b> , 350 lb bbls. wks. lb				



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## Chemicals

<b>PARIS GREEN</b>			<b>POTASSIUM—(Continued)</b>		
Arsenic Basis, 500 lb kegs... D	.25	: .30	Chlorate, crys. 112 lb kegs. e/l		
Keps, 100 lbs... D	.31	: .33	wks... D	.08%	: .08%
Kits, 56, 28, 14 lbs... D	.34	: .35	Imp. 112 lb kegs NY... D		: .06%
Packages, 5 and 2 lb... D	.36	: .37	Powd., 112 lb kegs wks... D	.08%	: .09
Packages, 1 lb. 1/4, 1/2 lb... D	.39	: .43	Imp., kegs NY... D	.06%	: .07
Paris White, see whitening, French			Pyrotechnic, fine powd. NY... D		: .08%
Pepsin, USP 5 lb bot... D	2.25	: 2.50	USP, fine crys. 110 lb kegs		
PETROLATUM, green 300 lb bbls D	.02 1/4	: .03	NY... D	.08	: .09
Dark Amber, 300 lb bbls... D	.03 1/4	: .04	Citrate, USP 10 lb cans... D	.63	: .66
Light Amber, 300 lb bbls... D	.04 1/4	: .05	Cyanide 110 lb cases... D		: .65
Cream White, USP 300 lb bbls D	.07	: .07 1/4	Glycerophosphate, 75% Soln. 25 lb	1.60	: 1.70
Lily White, USP, 300 lb bbls D	.09	: .09 1/4	fine... D		
Snow White, USP, 300 lb bbls D	.12 1/4	: .13	Guaiacol Sulfonate, 5 lb cans		
Phenol, see also acid carbollic			10 lb... D	2.00	: 2.25
Makers, 900 lb drums, wks... D	.24	: .25	Hypophosphite, 10 lb cans... D	.80	: .85
Small drums, 100-240 lb... D	.25	: .27	Iodide, USP, 100 lb cases... D	3.60	: 3.65
Open market, drs... D		: .25	Second Hands, cases... D	3.50	: 3.60
240 lb des drs. wks... D		: .26	Lactophosphate, 4 oz bot... D		: .90
Natural, 240 lb des drs. wks... D		: .25	Metabisulfite, 300 lb bbls... D	.18	: .20
Imported, 336 lb des drs... D		: .25	Imp., 550 lb bbls... D	.10	: .12
Phenolphthalein, USP, 100 lb drs D	1.40	: 1.50	Muriate, 80%, 200 lb bags, NY		
5 lb cans, 100 lb lots... D	1.50	: 1.60	K <sub>2</sub> O unit... D		: .61 1/4
Phenyl-Alpha-Naphthylamine 100 lb			Nitrate, see Saltpetre		
kegs... D		: .25	Oxalate, neutral, 100 lb kegs... D	.35	: .40
Phenylethylalcohol, 1 lb bot... D	6.75	: 8.75	Perchlorate, 112 lb kegs... D	.09 1/4	: .10
Imported... D	7.75	: 9.75	PERMANGAN, USP, crys. 500 lb		
Phenylthylmalonylurea, oz. pks... D		: 5.50	& 100 lb drs. wks... D	.14	: .14 1/4
Phosgene, 100 lb cylinders... D		: 1.00	Imp. 112 lb drs... D	.13 1/4	: .14
Phosphorus Oxide, 175 lb cyl. D	.35	: .40	Prussiate, red, 100 lb bbls... D		: .43
Phosphorus, red 110 lb ca. wks... D	.75	: .85	500 lb casks... D	.37	: .40
Imported, 112 lb cases... D		: .40	Prussiate, yellow, 500 lb casks D	.18	: .18 1/4
Yellow, 110 lb ca. wks... D	.40	: .45	Salicylate, 25 lb cans... D	.60	: .65
Imported, 112 lb cases... D		: .45	Sulfate, 200 lb bags, NY K <sub>2</sub> O unit		: .85
Phosphorus Trichloride, 175 lb cyl			USP, VIII, 100 lb kegs... D	.15	: .18
wks... D		: .45	Sulfocyanide, CP 25 lb jars... D		: .50
Phthalic Anhydride, 100 lb bbls D		: .30	Tartrate, neutral, 100 lb kegs D		: .51
Pilocarpine Hydrochloride, USP 25 oz			Titanium Oxalate 200 lb bbls D	.35	: .30
lots, 1 oz vials... oz	3.00	: 3.32			
Nitrate, 25 oz... oz		: 3.00			
Single ounces... oz		: 3.32			
Alkaloid, 15 gr. vls... ea		: .85			

Largest producers of Pure Phthalic Anhydride in the world



SELDEN

99.99+% Pure.

Brand PHTHALIC ANHYDRIDE

is the Product by which all other  
Brands may be Standardized.

IT-IS-PURE

Unless Phthalic Anhydride melted in a TEST TUBE, has the same colorless appearance as SELDEN BRAND, it contains foreign matter which proves it is *not* STANDARD.

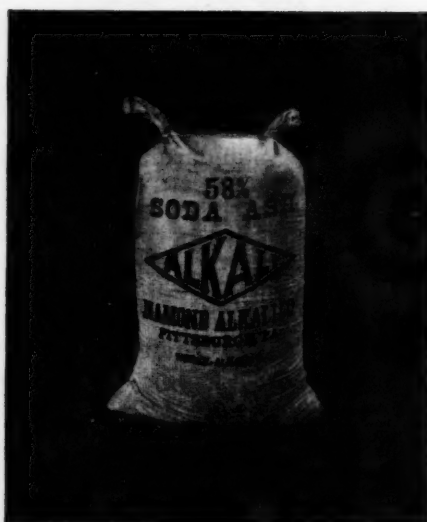
It is possible that trouble in commercial or research work can be traced directly to the use of *impure* Phthalic Anhydride.

THE SELDEN COMPANY

Pittsburgh, Pa., U. S. A.

## Chemicals

Pumice Stone, lump, 250 lb bbls. lb	.04%	.06	QUININE—(continued)			Santonin USP, 1 lb bot..... lb	145.00	145.00
Lump, bag..... lb	.03%	.05	Tartrate..... lb	.88		Prod. 1 lb bot..... lb	148.00	150.00
Powdered, 550 lb bbls..... lb	.02%	.03	Valerate..... lb	.89		Saponin, ex Quillaia, 5 lb tins..... lb	.50	1.10
Pyridine, 50 gal drums..... gal	3.80	4.00	Small Sizes: 1 oz vials or cans, 5000 lots, 5c ea extra; 500 cans, 5000 lots, 3c ea extra; 2500 cans, 5000 lots, 2c ea extra; single 100 vials or cans, 5c extra. All minor quinone salts sold and quoted basis 10000 lots in 10000 cans. Sulfate and bisulfate sold basis 10000 lots in 10000 cans. Smaller orders or containers extra as above schedule.			Schaeffer's Salt, 250 lb bbls. wks. lb	.60	.85
QUICKSILVER, see Mercury			R SALT, 250 lb bbls. wks..... lb	.49	.50	Scopolamine, see hyoscyne.		
Quinidine Alk., 10000 tins..... lb	.75		Red Lead, see lead oxide			Selditz Mixture, 22 lb bbls..... lb	.17	.18
Sulfate, 10000 tins..... lb	.50		Red Precipitate, see mercury			SILICA		
Quinidine, see Chinoidin			Resorcin, see resorcinol			Crude, bulk, minw..... ton	10.00	12.00
QUININE SULFATE, USP,			Resorcinol tech, 100 lb kgs..... lb	1.35	1.50	Refined, flaked, bags..... ton	18.00	30.00
American, 10000 tins..... lb	.50		USP, 25 lb cans..... lb	2.25	3.35	Alr flaked, bags..... ton	32.00	50.00
100 tins, 10000 lots..... lb	.57		Rochelle Salt, USP, 225 lb bbls..... lb	.20	.21	Extra, flaked, bags..... ton	55.00	65.00
Dutch, 10000 tins..... lb	.50		Imp. USP, 300 lb bbls..... lb	.19%	.30	SILVER, metal, American..... lb	.99%	
Java, 10000 tins..... lb	.50		Roswater, triple, 5 gal drums..... gal	.90	1.10	Foreign..... lb	.67%	
Japanese, 10000 tins..... lb	.50		Rotten Stone, lump imp., bbls..... lb	.07	.08	Colloidal, 16 oz bot..... lb	.280	
QUININE SULFATE, USP,			Lump selected, bbls..... lb	.09	.12	Silver Iodide, 16 oz bot..... lb	.69	
Acetate..... lb	.28		Powdered, bbls..... lb	.02	.05	Nitrate, USP, 20000 bot..... lb	.45	.46
Amersate..... lb	.88		Domestic, bags, minw..... ton	24.00	30.00	Nucleinate, 16 oz bot..... lb	.34	.38
Benzoate..... lb	.88		SACCHARIN, USP, 1 lb cans, 25 lb	1.90	2.10	Proteinates, 16 oz bot..... lb	.34	.38
Bisulfate, USP..... lb	.50		Soluble, USP, 1 lb cans, 25 lb..... lb	1.90	2.10	Soap, Castile, 40 lb bbs..... lb	.20	.25
Citrate..... lb	.62		Sal Ammoniac, see Ammon. Chloride			Powd. USP, 250 lb bbls..... lb	.28	.29
Dihydrochloride, USP..... lb	.66		Sallcin, USP, 1 lb cartons, 25 lb..... lb	4.50	4.75	Green, USP, 150 lb kgs..... lb	.07	.07%
Dihydrochloride..... lb	.66		Salol, USP, 100 lb drums..... lb	.75	.80	Soapstone, see Talc, crude		
Dicarbonate, 1000 tins..... lb	2.50		Salt, Common, see sodium chloride			SODA ASH, 58% light		
Ethyl Carbonate, 16 oz. tins..... lb	.91		Salt Cake, c/l f.o.b. wks..... ton	20.00	24.00	1-4 bags, deliv'd NY..... 100 lb	2.19	
Ferrocyanide..... lb	.88		SALTPETRE, Double Refined			5 & Up bags, deliv'd NY..... 100 lb	2.04	
Formate..... lb	.85		Granular, 400-500 lb bbls.			1-4 bbls., deliv'd NY..... 100 lb	2.44	
Glycerophosphate..... lb	.88		c/l wks..... lb	.06		5 & Up bbls., deliv'd NY..... 100 lb	2.29	
Hydriodide..... lb	.88		Less c/l works, bbls..... lb	.06%		Contract, Basis 58% bags c/l	1.38	
Hydrobromide, USP..... lb	.62		Large Crystals, 350-400 lb bbls.,			wks..... 100 lb	1.38	
Hydrochloride, USP..... lb	.62		c/l wks..... lb	.07%		Prompt and spot, Basis 58% bags	1.48	
Hydrochlorosulfate..... lb	.66		Small Crystals, 350-400 lb bbls.,			c/l wks..... 100 lb	1.48	
Hydrochloride & Urea, USP..... lb	.28		c/l wks..... lb	.07		Contract, Basis 58% drums bags	1.45	
Hypophosphite..... lb	.83		Powdered, bbls, c/l wks..... lb	.07		c/l wks..... 100 lb	1.55	
Lactate..... lb	.78		Imported, 500 lb bbls., NY..... lb	.06%		SODA, CAUSTIC, 76% solid		
Phenylsulfonate..... lb	.58					1-4 drums deliv'd NY..... 100 lb	3.91	
Phosphate..... lb	.74					5 & Up drums deliv'd NY..... 100 lb	3.76	
Sallylate, USP..... lb	.63					Ground & Flake, 76%		
Tannate, USP..... lb	.45					1-4 drums, deliv'd NY..... 100 lb	4.31	



[ Diamond Soda Ash  
 is guaranteed  
 over 99% pure ]

## A Manufacturing Policy that Creates Sales

The first carload of Diamond Soda Ash that was manufactured established a precedent that has been followed ever since. A policy that insists upon quality above all else presents no sales problem.

The success of such a policy is evidenced by the constantly increasing demand for Diamond Alkalies. Consumers of Diamond products have a satisfaction in the knowledge that they are using Alkalies that have become the Standard of Quality.

Manufactured & Sold  
Direct to Consumer

**Diamond Alkali Company**  
Pittsburgh · Penna





**F**ORTY-THREE years of practice  
have proven the soundness of the  
SOLVAY principle of supplying the  
Alkali trade with a finished product  
at a reasonable price.

**Solvay 58% Soda Ash**

Dense—Light—Extra light (Fluf)

**Solvay 76% Caustic Soda**

Solid—Flake—Ground

**Solvay Super Alkali**

**Solvay Snow Flake Crystals**

**Solvay Laundry Soda**

**Solvay Cleansing Soda**

**Solvay Tanners Alkali**

**Solvay Tanners Soda**

**Solvay Liquid Caustic Soda**

**Solvay Calcium Chloride 73%—75%**



## The Solvay Process Company

Detroit, Mich.    Syracuse, New York    Hutchinson, Kan.

**Sales Division Wing & Evans, Inc. - 40 Rector St., New York**

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Cincinnati

Cleveland

Detroit

Pittsburgh

Chicago

Syracuse

Indianapolis

# Chemicals

## SODA CAUSTIC—(Continued)

Pmp. and spot, Basis 78%	
c/l wks. ....100 lb	... : 3.26
Contract 74% low grade c/l	
wks. flat ....100 lb	... : 3.02
Ground & flake, 76% pmp. and	
spot, wks c/l drs. ....100 lb	... : 3.60
Contract, 76% drums, c/l wks	
flat ....100 lb	... : 3.50
USP, stick, 10 lb cans. .... lb	.19 : .21
Pure, stick, by alcohol. .... lb	.35 : .37

## SODIUM ACETATE, crys. 450 lb bbls

wks. .... lb	... : .05%
Car lots, bbls, wks. .... lb	... : .05
Aluminate, 500 lb bbls, wks. .... lb	.07% : .08
Aluminum Sulfate, see alum soda	
Arsenite, 4 lb mat. wks. drums gal	.50 : .60
Drums, 8 lb material, wks. gal	1.20 : 1.30
Benzoate, USP, 100 lb bbls. .... lb	.65 : .68
Bicarbonate, 400 lb bbls, NY. .... lb	2.25
Bila. c/l wks. ....100 lb	2.00
112 lb kegs wks. ....100 lb	2.25
112 lb kegs, NY. ....100 lb	2.50
Bichromate, 600 lb casks wks. .... lb	.07%
Caska, c/l wks. .... lb	.07%
Caska, NY. .... lb	.07% : .07%
Bisulfite dry powder, 500 lb	
bbls, wks. .... lb	.04 : .04%
Solution, 32-40°, 500 lb bbls.	
wks. ....100 lb	1.25 : 1.75
Bromate, 100 lb cs. .... lb	1.05
BROMIDE, USP, 450 lb bbls. .... lb	.38
Cases, 50 lb .... lb	.39
Imp. USP, 112 lb cs. .... lb	.33 : .35
Carocylate, USP, 5 lb. bot.	
25 lb .... lb	5.50 : 5.90
Carbonate, sal soda, 350 lb bbls.	
1c/l NY ....100 lb	1.30 : 1.35
Works c/l ....100 lb	1.10 : 1.30
Monohydrate, 400 lb bbl.	
1c/l NY ....100 lb	2.40
Pure photographic, 100 lb	
kg .... lb	.06 : .08
Chlorate, 112 lb kegs, wks. .... lb	.06% : .08%
Imported, 112 lb kegs. .... lb	.08% : .07

## SODIUM—(Continued)

Chloride, tech. 300 lb bags. .... ton	12.00 : 13.00
C. P., 300 lb bbls. .... lb	.05 : .06
Chromate, 800 lb bbls. .... lb	... : .08
Chtrate, USP, IX, 100 lb kegs. .... lb	.62 : .66
USP, VIII, 100 lb kegs. .... lb	.53 : .59
Cyanide, 96-98%, 100 lb cases	
wks. .... lb	... : .22
Ten lots, wks. .... lb	... : .22
73-76%, 100 lb cases, wks. .... lb	... : .19%
125-128%, 200 lb cs. .... lb	.20 : .20%
120-125%, 200 lb cs. .... lb	.16 : .17
118-126%, 200 lb cs. .... lb	... : .18
Fluoride, 300 lb bbls, wks. .... lb	.08% : .09%
Imp. 350 lb bbls. .... lb	.08% : .08%
Glycerophos, USP, crys 25 lb	
cans .... lb	1.65 : 1.75
Powder, 25 lb tins. .... lb	1.70 : 1.80
Solution, USP 25 lb tins. .... lb	1.10 : 1.20
Hydroxide, see Soda Caustic	
Hypochlorite, Soln., 100 lb chys. .... lb	... : .05
14% soln., 50 lb chys. .... lb	... : .04
Hydroxide, 200 lb bbls, reb. wks. .... lb	.22 : .24
For Stripping, 50 lb cans. .... lb	.35 : .40
Hypophosphite USP 25 lb cans	
.... lb	.70 : .75
HYPOSULFITE, tech. pea crys.	
375 lb bbls, wks. ....100 lb	2.65 : 3.05
Bbls, c/l wks. ....100 lb	... : 2.50
100 lb kegs wks. ....100 lb	2.75 : 3.35
Imp. ....100 lb	2.75 : 3.00
Granulated, bbls, wks. ....100 lb	2.90 : 3.30
Bila. c/l wks. ....100 lb	... : 2.75
Kegs, wks. ....100 lb	3.00 : 3.80
Regular crystals, ....100 lb	2.35 : 2.65
Iodide, USP, 25 lb jars. .... lb	4.25 : 4.80
Metanilate, 150 lb bbls. .... lb	.85 : .70
Naphthionate, 300 lb bbls. .... lb	.59 : .62
Nitrate, crude, 95%, 200 lb bags	
c/l NY ....100 lb	... : 2.65
Futures, NY. ....100 lb	2.40 : 2.45
Double Refined 400 lb bbls	
gran. c/l wks. .... lb	... : .04%
Nitrite, 500 lb bbls, wks. .... lb	.08 : .08%
Bbls, spot, makers. .... lb	... : .08%
Imp. 650 lb casks .... lb	.08% : .09

## SODIUM—(Continued)

Ortho-Chloro-para-Toluene Sulfo-	
nate, 175 lb bbls, wks. .... lb	.25 : .27
Oralate, neutral, 100 lb kegs. .... lb	... : .39
Perborate, 275 lb bbls. .... lb	... : .23%
Imp., 225 lb drs. .... lb	... : .31
Peroxide, 200 lb cases .... lb	.35 : .37
Phosphate, di-sodium, tech 550 lb	
bbls. .... lb	.03% : .03%
Imp. gran. .... lb	.07 : .07%
USP, gran. 275 bbls. .... lb	.05% : .06
USP, recryst. 275 bbls. .... lb	.10 : .11
Monosodium 100 lb kegs. .... lb	.34 : .36
Tri-sodium tech. c/l, bbls. .... lb	.03% : .04
Picramate, 100 lb kegs. .... lb	... : .60
Para-Toluene Sulfonate, 175 lb	
bbls. .... lb	.08 : .09
PRUSSIAN, yellow, 250 lb bbls. .... lb	.10 : .10%
Imp., 450 lb cks. .... lb	.09% : .10
Pyrophosphate, 100 lb kegs. .... lb	.24 : .26
Salicylate, 100 lb kegs. .... lb	... : .40
Second Hands, USP, kegs. .... lb	.37 : .40
Silicate, 60° 700 lb bbls, f.a.s.	
NY. ....100 lb	... : 2.00
Works, 1000 lb drums. ....100 lb	... : 1.90
Works, tanks ....100 lb	... : 1.75
40° domestic, 700 lb c/l f.a.s.	
wks. ....100 lb	... : .80
Works, 1000 lb drums. ....100 lb	... : .85
Works, tanks ....100 lb	... : .75
Spot, drums, bbls. ....100 lb	1.05 : 1.30
Silicofluoride, 450 lb bbls, NY. .... lb	... : .06
Sulphate, see Glauber's Salt	
Sulfate, Anhydrous, 550 lb bbls,	
c/l .... lb	.03% : .05
Sulfide, 60% solid, 650 lb drs.	
1c/l wks. .... lb	.04% : .05
Drs. c/l wks. .... lb	.03% : .04
Imp. 700 lb drs, NY. .... lb	... : .03%
60% broken, 650 lb drs wks. .... lb	.04% : .05
Imp., 500 lb drs, NY. .... lb	.03% : .04
30% crys. 440 lb bbls, wks. .... lb	.02% : .03%
Imp., 400 lb bbls. .... lb	.02% : .03%
Sulfate, crys. 400 lb bbls, wks. .... lb	.03% : .05%
Anhydrous, 400 lb bbls. .... lb	.09% : .10

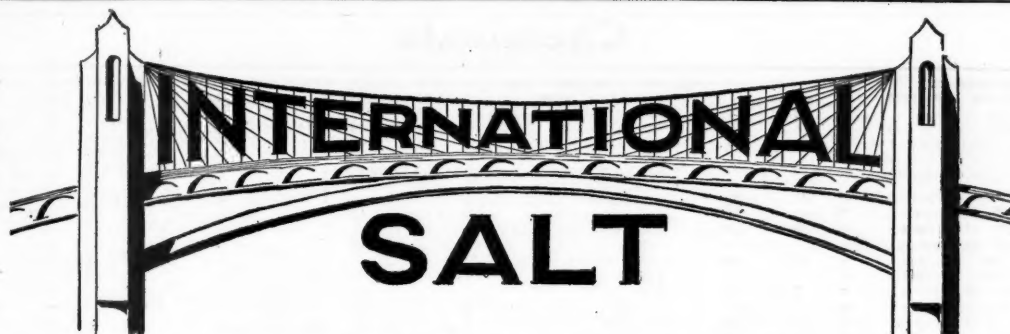


## SODA ASH CAUSTIC SODA BICARBONATE OF SODA

### MICHIGAN ALKALI COMPANY

General Sales Department  
21 East 40th Street, New York  
Works: Wyandotte, Michigan

"Distinguished for its High Test and Uniform Quality"



### THE BRIDGE TO SATISFACTION

Why does the International Salt Company work unceasingly to give satisfaction in service as well as in product?

Because it realizes that prompt deliveries of pure salt in any required quantity are necessary to the effectiveness of industrial processes.

When you order International Salt, we meet the implied obligation of service.

## INTERNATIONAL SALT COMPANY, INC.

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## GRASSELLI GRADE

*A Standard Held High for 85 Years*

### SNOW CAP BRAND Zinc Oxide

This low lead content pigment (5 per cent) is noted for the excellence of the results it gives.

### GRASSELLI WHITE Lithopone

Brilliant white; highly resistant to exposure; neutral; opaque.

### TOMAHAWK BRAND Zinc Oxide

This 35 per cent leaded brand is uniformly consistent, permitting positive formulae standardization.

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Established 1839 - - Cleveland, Ohio

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Cincinnati  
St. Louis

Milwaukee  
St. Paul





# Chemicals

<b>SODIUM—(Continued)</b>			<b>SULFUR, crude bulk, c/l NY, ton</b>			18.00	19.00	<b>Thiocarbamid, 170 lb bbls. .... lb</b>			.26	.28
Sulfocarbonate, USP, 100 lb			<b>Crude, f.o.b. mines ..... ton</b>			14.00	15.00	<b>Thymol, USP, 25 lb tins ..... lb</b>			2.25	3.40
kegs ..... lb	.35	.37	<b>Brimstone, 250 lb bags, c/l 100 lb</b>			1.75	1.95	<b>Iodide, 5 lb boxes ..... lb</b>			6.75	7.00
Sulfocyanide, 400 lb bbls. .... lb	.45	.47	<b>Less c/l bags NY ..... 100 lb</b>			1.85	2.10	<b>TIN, Metal Straits, NY ..... 100 lb</b>				45.00
Tungstate, crys. 100 lb kegs. .... lb	.60	.65	<b>Roll, 500 lb bbls. c/l NY 100 lb</b>			2.15	2.15	<b>American standard, NY ..... 100 lb</b>				44.87
Anhydrous, kegs ..... lb		.75	<b>Less c/l bags NY ..... 100 lb</b>			2.20	2.45	<b>99% American, NY ..... 100 lb</b>				44.50
Solvent Naphtha, see Naphtha			<b>Flour, Heavy, 290 lb bbls, 100 lb</b>			2.50	3.05	<b>Bichloride, 56% soln. 100 lb</b>				
Spartein Sulfate, USP, 250 lb bulk	.30	.40	<b>Light, 100%, 260 lb bbls, 100 lb</b>			2.60	3.15	bbls. wks. .... lb				.12%
Single oz. vial. .... oz		.47	<b>Rubbermakers 100%, 240 lb</b>					<b>Crystals, 500 lb bbls. wks. .... lb</b>				.35
Starch, rice, 140 lb bags ..... lb	.09	.10	<b>bbls. NY ..... 100 lb</b>			2.50	3.30	<b>100 lb kegs. wks. .... lb</b>				.33%
STRONTIUM Bromide, USP, 50 lb			<b>Commercial, 99%, 150 lb bbs</b>			1.35	1.65	<b>Oxide, 400 lb bbls. wks. .... lb</b>				.48
kegs ..... lb	.41	.42	<b>For Dusting, 99%, 100 lb</b>			2.00	2.50	<b>100 lb kegs. wks. .... lb</b>				.50
Carb. 600 lb bbls. wks. .... lb		.07	<b>Flowers, 100%, 240 lb bbls.</b>			3.00	3.55	<b>Tetrachloride, 1000 lb drs. wks. lb</b>				.26
100 lb kegs wks. .... lb		.08	<b>NY ..... 100 lb</b>			.14	.17	<b>Tolidine, 350 lb bbls. .... lb</b>			1.00	1.10
Iodide, USP, 25 lb jar ..... lb		4.00	<b>Precipitated, 125 lb bbls NY. .... lb</b>			.07	.10	<b>Sulfate, 350 lb bbls. .... lb</b>				1.10
Nitrate, 600 lb bbls. wks. .... lb		.10 1/4	<b>Lac, 125 lb bbls NY ..... lb</b>					<b>Toluene, 300 gal tank cars, wks. gal</b>				.26
Imp., bbls. NY ..... lb		.09 1/4	<b>Sulfur Chloride, red, 700 lb drs.</b>			.06	.07	<b>110 gal. drs. wks. .... gal</b>				.31
Salicylate, USP, 100 lb kegs. .... lb	.70	.75	wks. .... lb				.08	<b>Toluidine, Mixed, 900 lb drs. wks. lb</b>				.39
STRYCHNINE Alkaloid, USP, crys.			150 lb chys. wks. .... lb			.05	.07	<b>Tribromphenol, 100 lb cases. .... lb</b>				1.00
1000 oz. tins ..... oz		.61	Yellow, 700 lb drs. wks. .... lb			.08	.08 1/2	<b>Trional, see Sulfonethylinmethane</b>				
Alk. powd., USP ..... oz		.65	150 lb chys. wks. .... lb			.08	4.55	<b>Triphenylguanidine ..... lb</b>				.80
Acetate ..... oz		.68	<b>Sulfur Dioxide, 100 lb cyl. .... lb</b>			.75	1.00	<b>Triphenyl Phosphate, 450 lb bbls. lb</b>				.55
Glycerophosphate, USP ..... oz		.68	<b>Iodide, USP, VIII, 5 lb bot. .... lb</b>			40.00	50.00	<b>Tripoli, 500 lb bbls. .... 100 lb</b>			2.50	3.00
Hydrobromide ..... oz		.68	<b>Sulfuric Ether, see Ether</b>			60.00	80.00	<b>Tungsten NY ..... W.O. unit</b>			8.75	9.50
Hydrochloride ..... oz		.68	<b>TALC, Italian 220 lb bags NY. .... ton</b>			30.00	35.00	<b>Ultramarine Blue ..... lb</b>				.18
Hypochlorite ..... oz		.78	<b>Refined white, bags ..... ton</b>			35.00	45.00	<b>UREA, pure, 112 lb cases. .... lb</b>			.18	.20
Nitrate, USP ..... oz		.68	<b>French, 220 lb bags, NY ..... ton</b>			13.00	15.00	<b>VANILLIN, USP, 500 oz cans. .... oz</b>				49 1/4
Phosphate ..... oz		.68	<b>Refined, white, bags ..... ton</b>			16.00	18.00	<b>Cans, 80 oz. .... oz</b>				.50
Sulfate, USP, crys. powd. .... oz		.41 1/4	<b>Tar, Coal Gas, Tins, wks. .... gal</b>			.06	.08	<b>Cans, 16 oz. .... oz</b>				.51
Saccharinate ..... oz		1.75	<b>Coke Oven Tins, wks. .... gal</b>			.06	.08	<b>Second Hands ..... oz</b>			42 1/4	47 1/4
Strychnine preparations quoted bases			<b>Water Gas, Tins, wks. .... gal</b>			.26	.28	<b>Venetian Red ..... lb</b>				.05
1000 oz lots in 1000 tins. Small Sizes:			<b>Tartar Emetic, tech. 700 lb bbls. .... lb</b>			.31	.34	<b>Verdigris, see Copper Subacetate</b>				
1/4 oz vials, 50c extra; 1/2 oz vials, 25c			<b>USP, 300 lb bbls. .... lb</b>			.60	.62	<b>Vermilion, Amer. 100 lb kegs. .... lb</b>			.35	.40
extra; single ounce vials, 7c extra. Lots			<b>Terpineol, CP 1000 lb drums. .... lb</b>			.43	.50	<b>English, kegs ..... lb</b>			1.30	1.35
of 25 oz. 5c higher than above			<b>Cans, 50 lb ..... lb</b>			.53	.57	<b>Veratrine Sulfate, 10z vial. .... oz</b>				1.85
schedule. Lots of less than 25 oz.			<b>Imported, cans, 25 lb ..... lb</b>			1.65	1.85	<b>Veronal, see Acid Diethylbarbituric</b>				1.85
10c higher per oz.			<b>Terpenyl Acetate, 25 lb cans. .... lb</b>			1.85	1.90	<b>WHITE LEAD, see lead, white.</b>				
Sugar Coloring, lbs ..... gal	.63	.72	<b>Terra Alba, No. 1, 300 lb bbls. .... lb</b>			1.25	1.35	<b>White Precipitate, see mercury</b>				
Sugar Milk USP, 200 lb bbls. .... lb	.22	.23	<b>No. 2, bbls. .... 100 lb</b>			4.00	4.10	<b>Whiting, 200 lb bags, c/l wks. ton</b>			13.00	15.00
Second Hands, USP, bbls. .... lb	.20 1/2	.21	<b>Theobromine Alk., 5 lb cans. .... lb</b>				3.42	<b>Bags, 1c/l NY ..... ton</b>				18.00
Sulfonal, see Sulfonmethane			<b>and Sod. Salicylate, 1 lb bot. .... lb</b>					<b>Gilders, bags, NY ..... ton</b>			13.50	15.00
Sulfonethylinmethane, USP, 10 lb bbs. lb	3.85	4.05						<b>French, bags, NY ..... ton</b>				18.00
Sulfonmethane, USP, 10 lb bbs. .... lb	2.65	2.85						<b>English, bags, NY ..... ton</b>				21.00
								<b>Witch Hazel Extract, 50 gal. bbls. gal</b>			1.20	1.25

**R. W. GREEFF & CO.**  
INCORPORATED  
78 FRONT ST. NEW YORK, N. Y.  
Manufacturers' Agents

Amyl Acetate  
= Amyl Alcohol  
= Butyl Acetate  
= Acetine  
= Monacetine — Triacetine  
= Dibutylphthalate



**BARRETT** specifications  
for COAL TAR SOLVENTS are  
**STANDARD**

The **Barrett** Company  
40 Rector Street New York, N. Y.



# Chemicals

XYLENE, 3° dist. range, nitration	.40	.45
110 gal. drs NY	.45	.50
5° dist. range, 8000gal. tanks		
wks.	.35	.40
110 gal. drs. wks.	.40	.45
10° dist. range, drums, wks.	.35	.40
Commercial, 110 gal. drs., wks.	.32	.35
Tanks, wks.	.26	.27
Xylidine	.40	.45
YARA YARA, 1 lb tins.	1.75	2.00
Yohimbin Hydrchloride, 1 oz. vial.	3.00	3.57
ZINC, METAL, high grade, slabs		
c/l NY	8.25	
Common Slab, c/l NY	6.20	6.25
Mossy, 25 lb bxs NY		.14
Ammonium Chloride, powd., 400 lb		
bbls.	.07½	.08
Carb. tech. 150 lb kegs NY		.22
USP, 100 lb kegs.		.33
Chloride, fused, 600 lb drs.wks.		.06
Drs. c/l wks.	.04½	.05
Imp. drs. NY	.04½	.05
Granulated, 500 lb bbls.wks.	.07	.07½
Imported, drs. NY		.06½
Solution, 50%, tanks wks100 lb	2.25	2.50
USP, 25 lb jars	.27	.29
Cyanide, 100 lb drs.	.36	.37
Dust, 100 lb tins wks.	.09½	.10
500 lb bbls, kegs, c/l wks.		.08½
500 lb bbls, kegs, c/l wks.		.52½
Iodide, 5 lb bbls.		.45
Nitrate, 25 lb jars.		.08½
Oxide, Amer. 300 lb bbls, wks.	.08	.08½
Bbls. c/l wks.	.10½	.12½
French, 300 lb bbls wks.	.09½	.11½
Bbl c/l wks.	.09½	.10½
Bags, c/l wks.		.17
USP, 100 lb bbls, c/l.		.13
Ton lots, wks.		.13
Imported, white seal, bbls.		.10
Green seal, bbls.		.19½
USP, 100 lb bbls.		.22
Stearate, USP, 50 lb bbls.	.03½	.03½
Sulfate, 400 lb bbls, wks.		.08
Bbls. c/l wks.		.06
USP, 100 lb kegs	.32	.34
Sulfocarbonate, 100 lb kegs.		

## Oils

Castor, No. 1, 400 lb bbls.	.16½	.17
80 lb cases		.17½
No. 3, bbls.	.16	.16½
Blown, 400 lb bbls.		.18½
China Wood, bbls., spot NY	.14½	.15
Tanks, Spot, NY		.14½
July forward, arrival NY bbls.	.14½	.14½
July forward, arrival NY tanks.		.12½
Coast, tanks, July, forward	.12	.13
Coconut Ceylon, 375 lb bbls., NY	.09½	.10
8000 gal. tanks, NY		.08½
Cochin, 375 lb bbls., NY	.10	.10½
Tanks, NY		.09
Manila tanks, P. Coast.	.08½	.08½
Edible, bbls, NY	.10½	.10½
Cod Newfoundland, 50 gal. bbls.	.58	.60
Tanks, NY	.54	.56
Copra, bags	.05½	.05½
Corn, ref., 375 lb bbls., NY	.12½	.13
Crude, tanks mills	.10½	.10½
Bbls, NY		.12
Cottonseed, crude tks. mill.		.10½
P. S. Y., 100 bbl. lots NY	.12	.13
White, 100 bbl. lots, NY		.12½
Winter yellow, 100 bbls, NY	.12½	.12½
Degras, Amer. 50 gal. bbls., NY	.04½	.04½
English, light, bbls, NY		.05½
Dark, bbls, NY	.04½	.04½
Neutral, bbls, NY	.10	Nom.
Moellen, bbls, NY		.50
Greases, choice white, bbls, NY	.10½	.10½
Yellow		.06½
Brown		.06½
House		.06½
Bone naphtha		.06½
Herring, Tanks, Coast		
Horse, 375 lb bbls, NY	.07½	Nom.
Lard, prime steam bbls.	.13½	.13½
Compound, bbls.	.14	

LARD OIL, Edible prime, bbls.	.15%	
Off prime, bbls.	.12%	
Extra, bbls	.12½	
Extra No. 1, bbls.	.11%	
No. 1 bbls.	.11½	
No. 2 bbls.	.10%	
LINSEED, raw c/l bbls, spot.	1.00	
Five bbls., raw	1.03	
Boiled, 5 bbl. lots	1.05	
Double boiled 5 bbl. lots.	1.06	
Raw, c/l, bbls.	1.05	
Tank	.94	
July- Sept. c/l bbls.	1.00	
Imported, bbls, NY		
Tanks, NY		
Menhaden, crude bbls, wks.		
Crude, tanks, Balt.	.40	
Light strained, tanks.		
Light strained, bbls, NY	.56	
Yellow bleached, bbls, NY	.58	
Extra bleached, bbls, NY	.60	
Blown, bbls, NY	.10	
Neatsfoot, 20° c.t. bbls, NY	.19½	
Pure, bbls, NY	.15	
Extra, bbls, NY	.11%	
Olso Oil, No. 1, bbls, NY	.14½	.14½
No. 2, bbls., NY	.12½	.13
No. 3, bbls, NY		.11
OLIVE, denatured bbls, NY	1.20	1.22
Edible, bbls, NY	2.00	2.25
Foots, bbls, NY	.09½	.09½
Shipments	.09½	.09½
Palm Lagos, 1500 lb casks.	.07%	.07%
Niger casks	.07½	.07½
Bonny old Calabar, casks.	.07	Nom.
Palm Kernel, bbls., NY	.09	.09½
Peanut, refined bbls, NY	.15½	.16
Crude, mills buyers' tks.		
Crude, bbls, NY		
Perilla, bbls., NY	.14½	.14½
Poppyseed, bbls., NY	2.25	2.50

**W F GEORGE CHEMICALS**

INCORPORATED

42 Broadway, New York City

Telephone Broad 5428

Soda Ash  
Caustic Soda  
Sal Soda  
Glauber's Salt  
Tri Sodium Phosphate  
Sodium Bicarbonate  
Sodium Silicate

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**CHEMICAL SEABOARD COMPANY**

**Methanol**

(Wood Alcohol)

**Acetic Acid**

(All Grades)

**Acetate of Lime**

**Seaboard Chemical Co.**

**90 WEST STREET**

**NEW YORK**

Tel. Rector 4090—4091 Cables Seaboard, N. Y.

## Oils and Fertilizers

Rapeseed, refined bbls. NY.....gal	...	83
Blown, bbls. NY, 8 lbs. ....gal	...	1.00
Red Oil, distilled, bbls. ....lb	.08%	.09½
Saponified, bbls. ....lb	.08%	.09½
Tanks	...	.08
Salmon, 8000 gal. tks. Coast...gal	...	...
Sesame, edible bbls. ....lb	.12½	.13
Sod Oil, bbls. NY.....gal	...	.40
SOYA BEAN, crude tks. Coast..lb	...	.10½
Crude, tks. ....lb	.10½	.10½
Crude, bbls. NY.....lb	.12½	.12½
Sperm, 38° c.t. blehd. bbls. NY.gal	...	.89
45° cold test, blehd. bbls. NY.gal	...	.84
STEARIC ACID, s.p. 200 lb bags..lb	.10%	.11
Double pressed, bags .....lb	.11½	.11½
Double pressed, bgs., saponified..lb	.11½	.11½
Triple pressed, bgs., distilled..lb	.13	.13½
Triple pressed, bgs., saponified..lb	.13	.13½
Stearine, oleo, bbls. ....lb	.13½	.13½
Tallow, edible, tierces .....lb	.10	.10½
City, extra, loose .....lb	.07½	.07½
Tallow Oil, acidless tks. NY....lb	...	.09½
Bbls., c/l NY .....lb	.10½	.10½
Walnut, crude bbls. NY.....gal	...	...
Whale, nat winter bbls. NY.....gal	...	.77
Blehd. winter bbls. NY.....gal	...	.81
Extra Blehd. bbls. NY.....gal	...	.83
Crude, No. 1, tanks Coast...gal	...	...
Crude, No. 2, tanks Coast...gal	...	...
Crude, No. 3, tanks Coast...gal	...	...

### Fertilizer Materials

Blood, dried f.o.b. Balt.....unit	3.00	3.10
Chicago .....unit	3.50	3.75
Bone, 3 & 50 ground steamed..ton	20.00	21.00
Raw, Chicago .....ton	...	25.00
Cyanamide, NY, basis .....unit	...	2.00
Fish Scrap, dried wks.....unit	3.25	3.50
Acid, Bulk 7 & 3¼, Deliv.	...	...
Norfolk & Balt. basis..unit	2.85	3.00
Steamed Bone Meal, 3 & 50,Balt.ton	...	24.00
Tankage, ground, NY.....unit	2.65	2.75
High grade f.o.b. Chicago...unit	3.25	3.50

Ammon. Sulf., bulk wks.....100lb	2.50	2.60
Double bgs. f.a.s. NY.....100lb	2.60	2.65
Single bgs. wks.....100lb	2.60	2.65
NITRATE SODA, NY.....100lb	2.62½	2.65
Future, July, Aug.....100lb	2.35	2.45
Phosphate Rock, f.o.b. mines	...	...
Florida Pebble, 68% .....ton	...	2.25
Florida Pebble, 70% .....ton	...	2.50
Florida Pebble, 75-74% .....ton	...	3.75
Tennessee, 72% .....ton	...	5.50
Phosphate Acid, 16% Bulk wks..ton	7.50	8.00
POTASH	...	...
Pot. Chloride, 80% basis, bgs.ton	...	31.10
Pot. Sulfate, 90% basis, bgs.ton	...	41.27
Dbie. Manure Salts, 48% basis	...	...
bgs. ....ton	...	23.72
Manure Salts, 30% basis, bulk.ton	...	15.33
Manure Salts, 20% basis, bulk.ton	...	9.50
Kainite, 12.4% basis, bulk..ton	...	6.50
Bulk in bags, \$2.00 extra.	...	...
Prices c.i.f. Atlantic & Gulf Ports.	...	...

### Naval Stores

(Carloads ex-yard N. Y.)	...	...
Spirits Turpentine, bbls.....gal	...	.83½
Wood Turpentine, stm. distd. bbls.gal	...	.73½
Destructive distilled, bbls.....gal	...	.52
Pine Oil, stm. dist'd, bbls.....gal	...	.60
Pitch, prime .....bbl	...	5.50
Resins, (Sold in 600 lb bbls., gross for net, quotations based on a unit of 280 lb.)	...	...
B .....280 lb	...	5.55
D .....280 lb	...	5.65
E .....280 lb	...	5.75
F .....280 lb	...	5.80
G .....280 lb	...	5.80
H .....280 lb	...	5.80
I .....280 lb	...	5.80
K .....280 lb	...	5.85
M .....280 lb	...	5.90
N .....280 lb	...	6.10
WG .....280 lb	...	6.90
WW .....280 lb	...	7.60

Rosin Oil, first run, 50 gal. bbls.gal	...	.38
Second run, bbls.....gal	...	.44
Tar, kiln-burnt .....bbl	...	10.50
Retort .....bbl	...	10.50

### Dye and Tan Woods

Barwood, chips .....lb	.04½	.05
Camwood, chips .....lb	.09	.12
Divi Divi, pods, bags, .....ton	42.00	43.00
Fustic, sticks .....ton	30.00	33.00
Chips .....lb	.04	.05
Hemlock, bark .....ton	...	20.00
Hyperic, chips .....lb	.06½	.07
LOGWOOD, sticks .....ton	23.00	27.00
Chips 150 lb bags.....lb	.03	.03½
Mangrove bark, African.....ton	34.00	36.00
Myrobalans, bags, J1.....ton	37.00	38.00
R1 .....ton	33.00	34.00
J2 .....ton	30.00	31.00
Nutgalls, see Cruda Drugs	...	...
Oak bark, whole.....ton	20.00	23.00
Ground .....ton	...	25.00
Quercitron bark, rough.....ton	...	10.00
Ground .....ton	20.00	25.00
Sumac, Sicily, 160 lb bags.....ton	158.00	160.00
Virginia, 150 lb bags.....ton	40.00	45.00
Valonia Caps, 30-31% tan.....ton	32.00	33.00
Beard, 42% tan, bgs., .....ton	49.00	50.00
Mixtures, 36% tan.....ton	37.00	38.00
Wattle bark, bgs. ....ton	32.85	34.00

### Extracts

Range of prices includes quality range for large quantity.	...	...
Annatto, fine .....lb	.26	.29
Archil, double 600 lb bbls.....lb	.13	.14
Triple, 600 lb bbls.....lb	.16	.17
Conc., 600 lb bbls.....lb	.18	.20

## What is said of our Services!

Messrs. Gebr. Wanning Tilly, from Haarlem (Holland) write to us on the 23rd of October, 1922:—

"We received through our Agents, the Registered Deed of the declaration of ownership of our Trade Mark and Proprietary Name, and are pleased to inform you that the same has been found correct and the work done by you to our entire satisfaction.

"If any of our friends should be desirous of having his trademark also registered in India, we shall certainly recommend him your firm."

The Huntley Manufacturing Co., from Silver Creek, N. Y., U. S. A., write to us on the 5th of January, 1923:—

"We wish to thank you for the manner in which you have handled this and if there is any further business of this nature at any time that you can attend to, we will be glad to place it in your hands."

Messrs. Max Dörner G. m. b. H., from Solingen (Germany) write to us on the 25th of January, 1923:—

"Please note that we are satisfied by your work, and that further registrations will also be trusted to you."

## P. LODGE & CO.

Patent and Trade Mark Agents

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## BENZIDINE

DYESTUFF AND INTERMEDIATE  
MANUFACTURERS

OFFICE AND WORKS

NEWARK, N. J.



## Tannins and Dyestuffs

Chestnut, clarified, 25% tks. wks. D	.01% : .01%	
Bbls., wks. .... D	.02% : .03	
Powd., 60% 100 lb bags, wks. D	.05% : .05%	
Decolorized, bags, wks. .... D	.06% : .07	
Cudbear, English .... D	.18 : .20	
Cutch, Rangoon, 100 lb bales .... D	.14 : .16	
Borneo, solid, 100 lb bales .... D	.04% : .05%	
Liquid, 450 lb bbls. .... D	.07% : .11	
Tablets, 120 lb boxes .... D	.13 : .14	
Flaxine .... D	.95 : 1.00	
Furic, solid 50 lb boxes .... D	.20 : .22	
Crystals, 100 lb boxes .... D	.20 : .22	
Liquid, 51°, 600 lb bbls. .... D	.10 : .14	
Gall extract .... D	.16 : .18	
Gambier, 25% liq. 450 lb bbls. .... D	.11% : .14	
Common, 200 lb cases .... D	.12% : .13	
Singapore cubes, 150 lb bags .... D	.21 : .23	
HEMATINE, Paste, 500 lb bbls. .... D	.09% : .13	
Crystals, 400 lb bbls. .... D	.12 : .20	
Hemlock, 25% 600 lb bbls. wks. D	.03% : .03%	
Hyperic, 51°, 600 lb bbls. .... D	.16 : .18	
Indigo, Madras, bbls. .... D	.85 : .90	
Manilla, bbls. .... D	... : 1.30	
Larch, 25%, 600 lb bbls., wks. D	.03% : .04	
Powd. 100 lb bags, wks. .... D	.07 : .08	
Logwood, 51°, 600 lb bbls. .... D	... : .09	
Lower grades .... D	.07 : .08	
Solid, 50 lb boxes .... D	.09 : .15	
Madder, Dutch .... D	.28 : .30	
Mangrove, 55% 400 lb bbls. .... D	.04% : .05	
Myrobalsams, 25% liquid bbls. .... D	.04 : .05	
50% solid, 50 lb boxes .... D	.05 : .05%	
Oak, tanks, wks. .... D	.04 : .04%	
23-25% liq. 600 lb bbls. wks. D	.04% : .04%	
Orange, 51° liquid .... D	.07 : .08	
Powd. 100 lb bags .... D	.14 : .15	

Persian Berries .... D	.37 : .30	
QUEBRACHO, 35% liquid tks. D	.03 : .03%	
450 lb bbls. .... D	.03% : .04	
35% bleaching, 450 lb bbls. .... D	.04% : .05%	
Solid 65% 100 lb bales .... D	.04 : .04%	
Clarified bales .... D	.04% : .04%	
Quercitron, 51° 450 lb bbls. .... D	.07% : .08	
Powdered, 100 lb boxes .... D	.09 : .13	
Spruce, 25% liquid tanks wks. D	.01 : .01%	
Powd. 50% 100 lb bags wks. D	.02 : .02%	
Sumac, Liquid 450 lb bbls. .... D	.07 : .08	
Stainless, 600 lb bbls. .... D	.11 : .12	

### DYERS' SUNDRIES

Albumen, technical, egg 200 lb cs. D	... : 1.25	
Blood, 100 lb drs. .... D	.40 : .45	
Egg Yolk, Spray, 150 lb cs. .... D	.45 : .65	
British Gum, 140 lb bags c/l 100 lb	4.59 : 4.74	
Bags, lc/l ..... 100 lb	4.89 : 4.95	
Dextrin, corn 140 lb bags c/l 100 lb	... : 4.24	
Bags, lc/l ..... 100 lb	... : 4.34	
Yellow, bags c/l ..... 100 lb	... : 4.29	
Bags, lc/l ..... 100 lb	... : 4.39	
Potato 220 lb bags c/l 100 lb	... : .07%	
Bags, lc/l ..... 100 lb	... : .07%	
Yellow, 220 lb bags .... D	... : .08	
Taploca, 200 lb bags, lc/l .... D	.09% : .10%	
Prussian blue .... D	.60 : .62	
Sago Flour, 150 lb bags .... D	.04% : .05	
STARCH, powd. 140 lb bags c/l 100 lb	... : 3.77	
Bags, lc/l ..... 100 lb	... : 3.81	
Pearl, 140 lb bags c/l ..... 100 lb	... : 3.87	
Bags, lc/l ..... 100 lb	... : 3.77	
Potato domestic, 200 lb bags .... D	.05% : .06	
Imported, bags duty paid. .... D	.06 : .06%	
Taploca Flour, high grade bags. .... D	.06 : .06%	
Medium grade bags .... D	.04% : .05	
Low grade, bags .... D	.03% : .04	
Turkey Red Oil, bbls. .... D	.11 : .12	
Yolk Oil, bbls. .... D	... : .35	

### Crude Drugs

Accroides Gum, yel. .... D	.16 : .18	
ACONITE Leaves, bales .... D	.10 : .12	
Root, USP, bags .... D	.39 : .41	
Agar Agar, 1, 200 lb bales .... D	1.45 : 1.50	
No. 2, bales .... D	... : 1.35	
No. 3, bales .... D	... : 1.20	
Agarie, white, cases .... D	2.45 : 2.50	
Almonds, bitter bags bxs. .... D	.45 : .50	
Sweet, bags .... D	.57 : .60	
Meal, tins, boxes .... D	.24 : .27	
Aletris Root, bags .... D	.48 : .50	
Alkanet Root, bags .... D	.06 : .06%	
Alow, Barbadoes, 120 lb bbls. .... D	.65 : .70	
Cape, 400 lb cases .... D	.08 : .08%	
Curacao, 100 lb cases .... D	.8% : .09	
Socotrine, whole 100 lb cs. .... D	.30 : .32	
Althea Root, cut cases .... D	.22 : .24	
Whole bags .... D	.08 : .09	
Ambergris, black boxes .... D	8.00 : 10.00	
Grey, boxes .... D	... : 26.00	
Ammoniac, tears, bags .... D	.68 : .73	
Angelica Root, dom. bags .... D	.12 : .13	
Angostura Bark, bags .... D	... : ...	
Anise, Levant bags .... D	.15 : .16	
Russian, bags .... D	.13 : .14	
Star, cases .... D	.11% : .12	
Spanish, bags .... D	.14% : .15	
Anatto Seed, 200 lb bags .... D	.24 : .25	
ARABIC GUM,		
White, No. 1, 200 lb bags .... D	.26 : .27	
Seconds, 250 lb bags .... D	.24 : .25	
Sorts, amber, 200 lb bags, bbls. D	.11% : .12	
Powd., USP, 300 lb bbls. .... D	.18 : .18%	
Areca Nuts, 150 lb bags .... D	.09 : .10	
Powd., 200 lb bbls. .... D	.13 : .15	
Arnica Flowers, bales .... D	.08% : .09	
Root, bags .... D	.25 : .30	
Arrowroot, Amer., powd. bbls. .... D	.10% : .11	
St. Vincent, powd. bbls. .... D	.13% : .14	
Asafoetida, USP, 250 lb cases .... D	.18 : .20	
Powd. 50 lb bxs. .... D	.35 : .37	
BALM GILEAD SUDS, bags .... D	.43 : .48	
Balmory Herbs, bales .... D	... : .14	



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## Crude Drugs

BALSAMS								
Copaiba, Para, 80 lb cs.	..	.32	Canella Alba Bark, bales	..	.50	Cinnamon, Ceylon, bales	..	.26 1/2
South American, 80 lb cs.	..	.35	annabis, true imp. bags	..	5.75	Broken, bales	..	.16
Fir Canada, cans	gal	12.50	American (no assay) bales	..	.40	Civet, Abyssin horns	oz	2.75
Oregon, bbls.	..	1.10	USP	..	.70	Clover Toys, bags	..	.19
Peru, 120 lb cases	..	1.80	Cantharides, Chinese cases	..	.90	Cloves, Zanzibar, 135 lb bales	..	.23
Tolu, 90 lb cases	..	1.90	Powdered, boxes	..	1.05	Ambogynas, bales	..	.31 1/2
Bamboo Brier Root, bags	..	.05 1/2	Cantharides, Rumanian, cases	..	.90	Penang, bales	..	.40
Barberry Bark, tree bales	..	.12	Powdered, boxes	..	1.00	Cochineal, USP, boxes	..	.34
Root, bags	..	..	Caraway Seed, African, bags	..	.13	Coca Leaves, Huanuco bags	..	..
Bayberry Bark, bales	..	.10	Dutch, 11 lb bags	..	.14	Truxillo, bags	..	..
Wax, bbls.	..	.21	Cardamom, bleached, cases	..	1.65	Cobosh Root, Black bags	..	.09
Belladonna Leaves, bales	..	.23	Decorated, cases	..	1.60	Blue, bags	..	.11 1/2
Root, bags	..	.11	Green, grinding, bags	..	1.00	Colchicum Root, bags	..	.07
Bees Wax, white cases	..	.40	Carnauba Wax, Flor. bags	..	.44	Seed, bags	..	.08 1/2
Yellow, redned, cases	..	.36	No. 1 N Country bags	..	.36	Colocynth, apples, cases, bales	..	..
Crude, bags	..	.23	No. 2 N Country bags	..	.29	Pulp, USP, bales	..	.28
Benzoin Gum, Siam, boxes	..	1.30	No. 3 Fatty Gray, bags	..	.22	Colombo Root, whole bags	..	.02 1/2
Sumatra, 80 lb boxes	..	.22	No. 3 Chalky, bags	..	.22	Coltsfoot Leaves, bags	..	.05
Berberis Aquifolium Root, bags	..	.13	Cascara Amarga, 150 lb bales	..	1.25	Comfrey Root, bags	..	.13
Beth Root, bags	..	.30	Cascara Sagrada, bales, 1920-22	..	..	Cundurango Bark, bales	..	.35
Bitter Root, 100 lb bags	..	.40	bark	..	.26	Conium Seeds, bags	..	.12
Blackhaw Bark, root, bales	..	.35	1923 bark	..	.24	Copaiba Balsam Para, see Balsams	..	..
Tree, bales	..	.16	1924 bark	..	.16	Copal Gum	..	.12
Black Indian Root, 100 lb bags	..	.40	Cascarilla Bark, quills bales	..	..	Coriander Seed, Bombay bags	..	.06 1/2
Blood Root, bags	..	.14	Siftings, bbls.	..	..	Morocco, bags	..	.07
Blueflag Root, bags	..	.30	Cassia Bark, 66 lb cases	..	.12	Bleached, bags	..	.10 1/2
Boldo Leaves, bales	..	.20	China, Whole Rolls, cases	..	.10	Corn Silk, bales	..	.04 1/2
Bonsect Herb, bales	..	.08	Saigon, assort. bales	..	.22 1/2	Cotton Root Bark, bales	..	.12
Borage Flowers, bales	..	.16	Cassia Fistula, baskets	..	.09	Cowhage, oz. tins	..	.50
Bryonia Root, bags	..	.09	Castor Beans, bags	..	.03	Cramp Bark, so-called bales	..	.07
BUCHU LEAVES, short, 250 lb			Castoreum, 1 lb bot.	..	4.00	True, bags	..	.30
bales	..	.76	Catechu Gum, bags	..	.09	Cranesbill Root, bags	..	.16
Leas, bales	..	.82	Catnip Herb, bales	..	.23	CUBES BERRIES, XX bags	..	.65
Long, bales	..	..	Celery Seed, 220 lb bags	..	.32	Powdered, boxes	..	.68
Buckthorn Bark, bags	..	.05 1/2	Ceroid Wax, white bags	..	.10 1/2	Culvers Root, bags	..	.23
Burdock Root, bags	..	.13	Yellow, 200 lb bags	..	.09	Cumin Seed, Levant bags	..	.22
Burgundy Pitch, dom., 110 lb stands	..	..	CHAMOMILE FLOWERS, Roman			Morocco, bags	..	.24 1/2
Gross for net	..	..	bales	..	.60	Cuttlefish Bone, Trieste, straps	..	.13
Calabar Beans, bags	..	.12	Hung. cases bales	..	.07	Jewelers, large, straps	..	.50
Calamus Root, bleached cases	..	.33	Charcoal Willow, powd. bbls.	..	.06	Small, straps	..	.35
Unbleached, bags	..	.06	Wood, powd. bbls.	..	.04	French straps	..	.13 1/2
Calendula Petals, imp. bales	..	.22	Chestnut Bark, bags	..	.07	Powdered, boxes	..	.13
Callisaya Bark, bales, powd.	..	.25	Herb, bales	..	.06	Broken, boxes	..	.07
Camphor, see Chemicals	..	..	Chicle Gum, bags	..	..	Damar Gum, 135 lb cases	..	.24
Canary Seed, Morocco bags	..	.07 1/2	Chiretta, bales	..	.10	Damiana Leaves, bales	..	.14
South American, bags	..	.07	Cinchona Bark, red quills bales	..	.48	Dandelion Root, imp. bags	..	.37
Candellia Wax, bags	..	.23	Broken, bales	..	.21	Deer Tongue Leaves, bales	..	.12 1/2

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## Crude Drugs

Digitalis Leaves, bales.....lb	.07	.08	Grindelia Robusta Herb, bales...lb	.07½	.08½	LADY SLIPPER ROOT, bags...lb	.50	.55
Dill Seed, bags.....lb	.06	.07	Guaiac Gum, 80 lb cases.....lb	.35	.38	Larkspur Seed, bags.....lb	1.05	1.10
Dogwood Bark, Jamaica bags...lb	.10	.11	Guarana, tins, cases.....lb	.60	.65	Laurel Leaves, bales.....lb	.04	.05
American, bales.....lb	.07	.08	GUM, sec Arable Gum, etc.			Lavender Flowers, ordinary.....lb	.22	.26
Doggrass Root, USP, cut bags...lb	.10	.11	HELLEBORE ROOT,			Selected.....lb	.30	.40
Dragons Blood, mass cases.....lb	.60	.65	Black, bbls.....lb	.08	.10	Leeches, tubs.....Per 100	8.00	9.00
Reeds, boxes.....lb	.85	.90	Powdered.....lb	.15	.17	Lemon Peel, bags.....lb	.08	.09
ECHINACEA ROOT, bags.....lb	.30	.32	White, Powd., 250 lb bbls.....lb	.11	.12	Licorice Root, Russian, whole...lb	.07	.07½
Elecampane Root, bags.....lb	.09	.10	Helonias Root, (unicorn false) bags.....lb	.70	.73	Spanish, natural bales.....lb	.08½	.09
Elder Flowers, bags.....lb	.11	.14	Hemp Seed, Manchurian bags...lb	.03½	.04	Powdered, bbls.....lb	.09	.09½
Elmi Gum, 80 lb cases.....lb	.10	.11	Chilian, bags.....lb	.03½	.04	Selected, 2 & 5 lb bundles...lb	.14	.17
Elm Bark, select 5 lb bundles cases lb	.25	.26	Henbane Leaves, bales, USP...lb	.28	.32	Cuttings, 125 lb bags.....lb	.07	.07½
Grinding, bags.....lb	.16	.18	No assay.....lb	.26	.27	Greek, 150 lb bales.....lb	.03	.03½
Powdered, bbls.....lb	.23	.25	Henna Leaves, bales.....lb	.09½	.10	Life Everlasting Herbs, bales...lb	.05	.06
ERGOT, 150-200 lb bags.....lb	.30	.32	Leaves.....lb	.12	.13	Lime Juice, clarified bbls.....gal	.60	.65
Eucalyptus Leaves, bales.....lb	.05	.06	Honey, Calif., 120 lb cases...lb	.28	.30	Linden Flowers, with leaves, bales lb	.10	.11
Euphorbia Pilulifera Herb, bags...lb	.11	.13	Hops, N. Y. prime bales.....lb	.28	.30	Without Leaves, bales.....lb	.17	.18
Euphorbium Gum, cases.....lb	.25	.27	Pacific Coast prime bales.....lb	.25	.27	Liverwort Leaves, bales.....lb	.19	.20
Powdered, boxes.....lb	.40	.42	Horehound Herb, bales.....lb	.10	.11	Lobelia Herb, bales.....lb	.33	.34
Fennel Seed, French, bags.....lb	.10½	.11	Horsetail Rush, bags.....lb	...	.15	Lobelia Seed, bags.....lb	.62	.65
German, bags.....lb	.16½	.18	India Gum, sec Karaya			Lovage Root, Imported, bags...lb	.18	.20
Indian, bags.....lb	.08	.09	INSECT FLOWERS, open whole bales.....lb	.45	.47	Lupulin, boxes.....lb	1.15	1.20
Flax Seed, whole 180 lb bbls.....ca	13.00	13.50	Closed whole, bales.....lb	.43	.45	Domestic.....lb	1.15	1.20
Ground, 180 lb bbls.....lb	.07½	.08	Powdered, pure 200 lb bbls...lb	.57	.63	Lycopodium, 88 lb cr.....lb	.29	.31
Foenugreek Seed, 200 lb bags...lb	.05	.05½	Flowers and stems, 50 p. e. 200 lb bbls.....lb	.36	.38	NACE, Siam, No. 1 cases.....lb	.63	.64
Fish Berries, 100-125 lb bags...lb	.02½	.03	Ipecac Root, Cartagena, bags.....lb	1.95	2.00	Banda, No. 1 cases.....lb	.65	.67
Fringe Tree Bark, bags.....lb	.20	.21	Powdered, 220 lb bbls. boxes lb	2.10	2.20	Ratavia, No. 2 cases.....lb	.60	.61
GALANGAL ROOT, bags.....lb	.07½	.08	Rio Whole, bags.....lb	1.95	2.00	West Indian, cases.....lb	.58	.60
Galbanum Gum, cane.....lb	.80	.85	Powdered, 200 lb bbls. bxs. lb	2.10	2.20	Malva Flowers, blue bales.....lb	.38	.40
Gambier Gum, bags.....lb	.11½	.12	Isinglass, American, 130 lb cs...lb	.75	.80	Black, bales.....lb	.55	.60
Gamboge Gum, 160 lb cases.....lb	.78	.80	Russian (Beluga) bxs. ctins...lb	4.00	4.50	Manna, large flake cases.....lb	.91	.95
Powdered, cases.....lb	.87	.90	JABORANDI LEAVES, bales.....lb	.10	.10½	Small flake, cases.....lb	.51	.52
Gelsemium Root, bags.....lb	.11	.11½	Jalap Root, whole, 150 lb bags...lb	.29	.31	Soda, cases.....lb	...	.30
Gentian Root, bags.....lb	.08½	.09½	Powdered, USP, 250 lb bags...lb	.34	.36	Mandrake Root, bags.....lb	.14	.16
Ginger, African, bags.....lb	.17	.17½	Japan Wax, white bags.....lb	.19	.21	Mastic Gum, 120 lb case.....lb	.55	.60
Jamaica, grinding, bags, bbls...lb	.29	.33	Job's Tears, white bags.....lb	.10	.12	Mazereon Bark, bags.....lb	.11	.12
Japan, bags.....lb	.16½	.17	Juniper Berries, 125 lb bags...lb	.03	.03½	Matteo Leaves, bales.....lb	.16	.18
Cochin, ABC & Lemon, bags...lb	.19	.20	KAMALA, boxes.....lb	1.10	1.20	Marjoram Leaves, German bales..lb	.11	.20
Greening Root, cultivated, bags...lb	8.00	10.00	Karaya Gum, powdered, bbls...lb	.12	.18	French, bales.....lb	.12	.15
Northwestern Wild, bags.....lb	12.00	14.00	Kava Kava Root, bags.....lb	.13½	.15	Millet Seed, dom. yellow bags...lb	.03	.04
Southern Wild, bags.....lb	9.00	11.00	Kino Gum, black cases.....lb	.50	.55	Montan Wax, crude bags.....lb	.05½	.06
Golden Seal Root, bags.....lb	3.60	3.70	Kola Nuts, 150 lb bags.....lb	.04½	.05	Bleached.....lb	...	...
Powdered, boxes.....lb	8.85	8.95	Koussou Flowers, bags.....lb	2.00	2.50	Moss, Iceland bales.....lb	.08	.08½
Grains of Paradise, bags.....lb	.10	.11				Irish, bleached, bales.....lb	.10	.11

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## Crude Drugs

Musk pods, Carbadine, tins.....	16.00	: 17.00	Patchouli Leaves, bales.....	.16	: .18	Rosemary Flowers, cases bales....	.25	: .28
Toouquin.....	22.00	: 25.00	Pennyroyal Herb, bales.....	.08	: .12	Rose Petals, pale.....	.22	: .25
Grain Cab.....	25.00	: 26.00	Pepper, black Sing. bags.....	.11	: .12	Red.....	.65	: .70
Toouquin.....	25.00	: 28.00	White, bags.....	.15 1/4	: .16	Rue Herb, bales.....	.18	: .22
Synthetic, see Chemicals			Peppers, red Mombasa, bags.....	.08 1/4	: .09	SABADILLA SEED, bags.....	.13	: .14
Musk Root, Russian bags.....	.44	: 4.25	Cherries, bags.....	.12	: .14	Powder, bbls.....	.15	: .16
Mustard Seed, Bari brown bags..	.11 1/4	: .12 1/4	Bombay, bags.....	.10	: .11	Saffron Flowers, Amer. bales....	.80	: .82
Bombay, brown.....	.10 1/4	: .11	Japan, bags.....	.22	: .24	Valencia, 1 lb cans.....	38.00	: 39.00
California, brown.....	.11	: .11 1/4	Peppermint Leaves, imp. bales..	.22	: .24	Sage, Dalmatian bales.....	.04	: .05
Yellow.....	.11 1/4	: .11 1/4	Cuts, bales.....	.12	: .14	Greek, bales.....	.04 1/4	: .05 1/4
Chinese yellow.....	.04	: .04 1/4	Domestic leaf.....	.18	: .19	Spanish, bales.....	.03	: .03 1/4
English, yellow.....	.09	: .09 1/4	Pichl Leaves, bags.....	.40	: .45	Sandalwood, chips bags.....	.17	: .18
Dutch, yellow.....	.07 1/4	: .08	Pimento, select bags.....	.05 1/4	: .06	Ground, bags.....	.21	: .22
Danish, yellow.....	.08 1/4	: .09	Pink Root, true bags.....	.95	: 1.05	Sandarac Gum, 300 lb bbls....	.29	: .31
Myrrh Gum, select 200 lb cases..	.30	: .33	Pitch, Burgundy, see Burgundy Pitch			Sarsaparilla Root Honduras, bales	.60	: .62
Sorts, cases.....	.25	: .27	Pleurisy Root, bags.....	.22	: .22	Mexican, bales.....	.10	: .20
NUTGALLS, Chinese, bags.....	.17	: .18	Plantain Leaves, bales.....	.15	: .15	Sassafras Bark, ordinary bales..	.15	: .17
Aleppy, bags.....	.14	: .15	Poke Berries, bags.....	.15	: .15	Select, bales.....	.29	: .31
Nutmegs, 110s cases.....	.40	: .41	Poke Root, bags.....	.08	: .09	Savory Leaves, bales.....	.06 1/4	: .07 1/4
75s, 80s cases.....	.44	: .46	Pomegranate Bark, of root bags..	.30	: .30	Saw Palmetto Berries, bags.....	.10	: .11
Nux Vomica Buttons, bags.....	.04 1/4	: .05 1/4	Of Fruit, bags.....	.30	: .30	Scammony Root, boxes.....	1.85	: 1.40
Powdered, 200 lb bbls.....	.08	: .09	Of Tree.....	.30	: .30	Scammony Root, bags.....	.08 1/4	: .07
OAK BARK, red bags.....	.05	: .06	Poppy Flowers, red bags.....	.25	: .28	Senegea Root, bags.....	.60	: .62
White, bags.....	.06	: .07	Poppy Seed, Dutch, bags.....	.06 1/4	: .07	SENNA, Alex. 150 lb cases.....	.22	: .24
Olibanum Gum, sift 280 lb cases..	.09	: .09 1/4	German, bags.....	.06	: .07	Half Leaf, 350 lb bales.....	.14	: .16
Tears, 280 lb cases.....	.11	: .13	Turkish, bags.....	.06	: .08	Siftings, 400 lb bales.....	.10	: .11
No. 1, all white 280 lb cases..	.22	: .23	Blue Indian, bags.....	.08	: .08 1/4	Powdered, 200 lb bbls.....	.12	: .14
Opium, gum, USP, cases.....	9.00	: 10.00	White Indian, bags.....	.07	: .07 1/4	Tinnewelly, job, 350 lb bbls....	.11	: .14
Granular, cases.....	10.00	: 11.00	Prickly Ash Bark, Southern, bags.	.32	: .34	Grinding, 350 lb bales.....	.05	: .06
Powdered, USP, cases.....	10.00	: 11.00	Northern, bags.....	.14	: .16	Powdered, 200 lb bbls.....	.08	: .09
Orange Flowers, cases.....	.50	: 1.00	Prickly Ash Berries, bags.....	.14	: .16	Pods, 350 lb bales.....	.30	: .35
Orange Peel, bitter, bags.....	.07 1/4	: .07 1/4	Prince's Pine, bales.....	.25	: .30	Serpentaria Root, bags.....	.85	: .87
Sweet, bags.....	.08 1/4	: .09 1/4	Pumpkin Seed, bags.....	.16	: .18	Shellac, D.C., bags.....	.74	: .75
ORRIS ROOT Florentine bold bags.	.07	: .08	QUASSIA CHIPS, bags.....	.07 1/4	: .08	V.S.O., bags.....	.74	: .75
Powdered, 200 lb bbls.....	.09	: .10	Queen of the Meadow Herb, bags.	.75	: 1.00	Diamond I, bags.....	.78	: .74
Verona, bags.....	.05	: .06	Quince Seed, bags.....	.04	: .04 1/4	Superfine, Orange, bags.....	.58	: .59
Powdered, 200 lb bbls.....	.07 1/4	: .09	RAPE SEED, South Amer. bags..	.05 1/4	: .06	Fine, bags.....	.58	: .59
Fingers, cases.....	.55	: .60	Dutch, bags.....	.05 1/4	: .06	T.N., bags.....	.54	: .55
Ozokerite Wax, brown hard bags..	.22	: .24	Japanese, small, bags.....	.05 1/4	: .06	Garnet, A. C.....	.53	: .54
Green, hard bags.....	.27	: .28	Raspberries, dried boxes.....	.56	: .60	Button, bags.....	.69	: .70
Refined, yellow bags.....	.20	: .21 1/4	Red Saunders.....	.17	: .19	Bleached, ground, bbls.....	.56	: .57
PAPRIKA, bags.....	.20	: .21 1/4	Rhatany Root, bags.....	.10	: .11	Bone dry, bbls.....	.65	: .66
Hungarian.....	.26	: .28	RHUBARB, Root, H. D., cases..	.29	: .31	Simaruba Bark, bales.....	.07	: .08
Pareira Brava Root, bags.....	.12	: .14	Powdered, 200 lb bbls.....	.34	: .36	Sideritis Herb, cut bags.....	.15	: .18
Parsley Seed, bags.....	.09	: .10	Rosemary Leaves, bales.....	.04 1/4	: .05	Skullcap Leaves, Eastern, bales..	.70	: .75
						Western, bales.....	.42	: .44
						Sloe Berries, bags.....	.03	: .04

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Snake Root, Canada natural bags..lb	.45	: .50	Tragacanth Gum, No. 1, ribbon		
Stripped, bags .....	.50	: .65	160 lb cs. ....	1.20	: 1.25
<b>SOAP BARK</b> , whole. 150-200 lb			No. 2 to No. 6, cases.....	.90	: 1.20
bales .....	.08 1/2	: .09	Powdered, 50 lb boxes.....	.85	: .90
Cut, 125-175 lb bags .....	.09 1/2	: .10	Turkish, cases .....	.70	: .85
Crushed, 200 lb bbls.....	.11	: .12	Turmeric Root, Madras bags.....		
Powdered, 200 lb bbls.....	.12	: .13	Aleppy, bags .....	.10 1/2	: .10 1/2
Spearmint Leaves, American bales..lb	.15	: .22	Powdered .....	.12	: .13
Spermaceti, blocks cakes cases...lb	.38	: .42	China, bags .....	.08 1/2	: .09
Spikenard Root, bags .....	.25	: .27	Turpentine, Venice, true 80 lb cs..lb	.15	: .16
Spruce Gum, boxes .....	1.00	: 1.50	Artificial, 80 lb cases.....	.13	: .15
Squaw Vine, bales .....	.18	: .20	Spirits, see Naval Stores		
Squills, white .....	.04 1/2	: .05	<b>UNICORN ROOT</b> , false, see Heloni		
Powdered, bulk .....	.35	: .40	True, see Aletris		
Stavesacre Seed, bags .....	.42	: .45	Uva Ursi Leaves, bales.....lb	.04 1/2	: .05
Sticklac, Siam, 350 lb bales.....	.39	: .40	Green Label, cases.....	.09 1/2	: .09 1/2
Stillingia Root, bags .....	.11 1/2	: .12	<b>VALERIAN ROOT</b> , Belgian bags, lb	.09	: .09 1/2
Stone Root, bags .....	.09	: .10	Vanilla Beans Mex. whole cases..lb	12.00	: 14.00
Storax, liquid artif.....	.70	: .75	Cuts, cases .....	11.00	: 11.50
Gen. USP .....	.90	: 1.00	Bourbon, cases .....	11.50	: 12.00
St. Ignatius Beans, bags .....	.12	: .13	South American, cases .....		
St. John's Bread, bags .....	.03	: .05	Tahiti, yellow label cases.....lb	7.00	: 7.50
Stramonium Leaves, bales.....	.06 1/2	: .07 1/2	Green Label, cases.....	.25	: .26
Stramonium Seed, bags .....	.12	: .13	Vetiver Root, 100 lb bags.....	.80	: .85
Strophanthus Seed, Hispidus...lb	.30	: .35	Violet Flowers, bags .....	1.00	: 1.10
Kombe, bags .....	.34	: .40	Of Tree, bags .....	.40	: .42
Sunflower Seed, domestic bags...lb	.05 1/2	: .06	White Pine Bark, rounded, bags..lb	.07 1/2	: .08
South American, bags .....	.05	: .05 1/2	White Poplar Bark, bags.....lb	.06	: .07
<b>TAGALDER BARK</b> , bags .....	.05	: .06	Wild Cherry Bark, thin green		
Tamarinds, bbls. ....	.05 1/2	: .06	Rosced, bales .....	.11	: .12
Keys .....	...	: 3.50	Thick Rosced, bales .....	.08	: .09 1/2
Tansy Herb, bales .....	.18	: .19	Thin Natural, bales .....	.08 1/2	: .09 1/2
Tar, Barbadoes, 50 gal. bbls....gal	1.40	: 1.50	Thick Natural, bales .....	.06	: .07
Thus Gum, 280 lb bbls.....	.07	: .08	Willow, bark bags .....	...	: .06
Thyme, Spanish bales .....	.05 1/2	: .06 1/2	White, bags .....	...	: .15
French, bales .....	.07 1/2	: .08 1/2	Witch Hazel Bark, bgs.....	.07	: .08
Tilla, See Linden			Witch Hazel Leaves, bales.....lb	.07 1/2	: .08
Tolu Balsam, see Balsam			Worm Seed, American bags.....lb	.08 1/2	: .09
Tonga Bark, bags .....	.27	: .29	Levant bags .....	5.25	: 5.50
Tonga Beans, Angostura, cases...lb	2.15	: 2.25	Wormwood Herb, imported bales..lb	...	: .10
Para, cases .....	.75	: .80	Yacca Gum, red .....	.04	: .04 1/2
Surinam, cases .....	...	: ...	Ground .....	.05 1/2	: .06 1/2
			<b>YELLOW DOCK ROOT</b> , bags.....lb	.12	: .14
			Yellow Fartila Root, bags.....lb	.16	: .17
			Yerba Santa, bags .....	.09 1/2	: .10
			Zedoary Root, bags .....	.11	: .12

## Essential Oils

Almond Bitter USP 5 lb bot....lb	3.25	: 3.50
Bitter ft PA 5 lb bds.....	3.25	: 3.50
Sweet, 56 lb cans .....	.41	: .43
Peach Kernel, 55 lb tins.....lb	.24	: .25
Apricot, see Peach Kernel		
Amber, crude 25 lb tins.....lb	.70	: .75
Rectified, 25 lb tins.....lb	.90	: .95
Angelica Root, 1 lb bot.....lb	32.00	: 36.00
<b>ANISE</b> , Tech., 66 lb case.....lb	.45	: .50
USP, 50 lb tins .....	.52	: .54
Bay, 25 lb tins .....	2.25	: 2.35
Bergamot, 25 lb coppers .....	3.50	: 3.70
Artificial, 25 lb cans.....lb	2.20	: 2.35
Birch Tar, rect. 5 lb bot.....lb	1.00	: 1.10
Crude, 50 lb tins.....lb	.30	: .30
Bois de Rose, 25 lb tins.....lb	4.25	: 4.50
Cajuput, native, 50 lb tins.....lb	.77 1/2	: .80
Calamus, 5 lb bot.....lb	4.20	: 4.65
Camphor, heavy, 1000 lb drums..lb	.14 1/2	: .15
Japanese, white, 72 lb cases..lb	.13	: .14
White, 1000 lb drums.....lb	.12 1/2	: .14
Cananga, native 25 lb tins.....lb	2.00	: 2.25
Rectified, 25 lb tins .....	2.75	: 3.00
Caraway, USP .....	5.25	: 5.75
Cardamom, USP, 1 lb bot.....lb	28.00	: 30.00
Carrot, 5 lb bot.....lb	14.00	: 15.00
<b>CASSIA</b> , 80-85 p.c. 400 lb drums..lb	1.75	: 1.80
Redistilled, USP, 50 lb cans..lb	2.10	: 2.20
Cedar Leaf, 50 lb tins.....lb	.95	: 1.00
Cedar Wood, light 1000 lb drums..lb	.45	: .47
Celery, 1 lb bot.....lb	10.00	: 11.00
Chaulmoogra, 80 lb cases.....lb	.85	: .90
Cinnamon, Ceylon, 1 lb bot.....lb	11.00	: 12.50
Leaf, 5 lb bot.....lb	1.45	: 1.60
<b>CITRONELLA</b> , Ceylon,		
1000 lb drums .....	.80	: .90
50 lb tins .....	.83	: .93
Java, 400 lb drums .....	1.35	: 1.40
50 lb tins .....	1.40	: 1.45
Cloves, USP, 50 lb cans.....lb	1.95	: 2.05
6 lb bot.....lb	2.05	: 2.15

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Copaiba, USP, 50 lb tins.....	40	: 42	Pimento, 25 lb tins.....	2.00	: 2.10
Coriander, USP, 1 lb bot.....	11.25	: 11.75	Pinus Sylvestris, 25 lb tins.....	...	: 1.40
Croton, USP, 25 lb tins.....	1.00	: 1.10	Pumilio, USP, 25 lb tins.....	...	: 2.25
Cubebs, USP, 5 lb bot.....	5.00	: 5.25	Rose, Fr., 8, 16 & 32 oz pgs. oz	...	: 9.00
Cumin, 1 lb bot.....	12.00	: 12.50	Bulg., 8, 16 & 32 oz pgs. oz	8.00	: 9.00
Dill, 1 lb bot.....	4.25	: 4.50	Artificial, 1 lb bot.....	2.00	: 3.00
Erigeron, 20 lb tins.....	1.30	: 1.40	Rosemary, USP, 27 1/4 lb tins.....	42	: 48
<b>EUCALYPTUS, Austl. USP</b>					
50 lb drums.....	53	: 55	Tech., 27 1/4 lb tins.....	35	: 40
500 lb drums.....	...	: 50	Rue, 1 lb bot.....	...	: 4.25
Fennel, USP, 25 lb tins.....	90	: 1.10	Sandalwood, E. Ind. USP, 76 lb cases	6.20	: 6.30
Geranium, Algerian, 25 lb tins..	7.75	: 8.50	W. Indian, (Amyris) 25 lb tins..	2.75	: 2.90
Bourbon, 25 lb tins.....	6.75	: 8.50	Sassafras, USP, 50 lb cans.....	1.25	: 1.35
Turkish, 28 lb tins.....	4.25	: 4.50	Artificial, 1000 lb drs., 60 lb cans	34	: 36
Ginger, 1 lb bot.....	9.00	: 10.00	Savin, 5 lb tins.....	2.50	: 2.75
Gingergrass, 28 lb tins.....	2.75	: 3.00	Spearmint, USP, 60 lb cases.....	2.75	: 2.85
Hemlock, 50 lb cans.....	90	: 1.00	Spruce, 50 lb tins.....	90	: 1.00
Juniper Berries, USP, 25 lb tins..	1.25	: 1.30	Tansy Amer., 20 lb tins.....	3.25	: 3.50
Wood, 50 lb tins.....	50	: 60	Tar, 50 gal. bbls.....	25	: 26
Lavender, USP, 25 lb tins.....	4.50	: 6.00	Refined, USP, 25 lb tins.....	...	: ...
Spice, Spanish, 50 lb cans.....	85	: 1.00	Thyme, red, USP, 25 lb tins.....	85	: 1.00
<b>LEMON, Ital. USP, 25 lb tins.....</b>	75	: 90	White, USP, 25 lb tins.....	1.00	: 1.10
American, USP, 25 lb tins.....	75	: 80	Tech., 110 lb drums.....	30	: 35
Lemongrass, native, 50 lb cans..	75	: 85	Vetivert, Bourbon, 1 lb bot.....	11.00	: 14.00
Limes, express, 25 lb tins.....	2.00	: 2.10	Java, 1 lb bot.....	30.00	: 32.00
Distilled, 25 lb tins.....	1.05	: 1.15	Wine, heavy 1 lb bot.....	...	: 1.50
Linaloe, Mex. 80 lb cases.....	3.50	: 3.75	<b>WINTERGREEN</b>		
Mace, distilled, 50 lb tins.....	1.25	: 1.35	Sweet beh., 25 lb tins.....	2.50	: 3.00
Mirbane, ref., see Ar. Chemicals	...	: 14.00	Southern, 25 lb tins.....	1.85	: 2.00
Mustard, USP, 1 lb bot.....	3.00	: 3.15	Gaultheria, true 25 lb tins.....	7.00	: 8.00
Artif., USP, 1 lb bot.....	40.00	: 60.00	Southern, 25 lb tins.....	4.00	: 4.25
Neroli, Bigarade, 1/4 & 1 lb bot..	90.00	: 120.00	Synthetic, USP, 50 lb cases.....	...	: 47
Petalae, 1 lb bot.....	10.00	: 25.00	Wormseed Balt, USP, 25 lb tins..	4.25	: 4.50
Artificial, 1 lb bot.....	10.00	: 25.00	Wormwood dom., 25 lb tins.....	3.50	: 4.00
Nutmeg, USP, 25 lb tins.....	1.25	: 1.35	Ylang Ylang, Bourbon 10 lb tins	...	: ...
Orange, bitter, 25 lb tins.....	2.70	: 3.00	No. 1.....	6.00	: 8.00
Sweet, W. Ind., 25 lb tins.....	2.60	: 2.70	No. 2.....	5.00	: 6.00
Italian, 25 lb cop.....	2.75	: 3.25	Manila, 1 lb bot.....	28.00	: 40.00
American, 25 lb tins.....	3.00	: 3.10	Artificial, 1 lb bot.....	10.00	: 12.00
Distilled, 25 lb tins.....	1.50	: 1.75	<b>OLEORESINS</b>		
Spandsh, 25 lb tins.....	2.75	: 3.00	Aspidium, USP, 1 lb bot.....	2.75	: 3.00
Origanum, 50 lb cans tech.....	30	: 35	Capsicum, USP, 5 lb bot.....	2.00	: 2.25
Parsley, 1 lb bot.....	3.50	: 4.00	Ginger, 5 lb bot.....	3.35	: 3.60
Patchouli, 5 lb bot.....	4.50	: 5.50	Cubeb, USP, 1 lb bot.....	4.50	: 4.75
Pennyroyal, dom. 25 lb tins.....	2.00	: 2.25	Malefern, See Aspidium	...	: ...
Imported, 25 lb tins.....	1.80	: 1.95	Orris 1 lb bot.....	15.00	: 18.00
<b>PEPPERMINT, nat. 60 lb cases..</b>	4.00	: 4.15	Pepper, black, USP, 1 lb bot.....	8.50	: 4.00
Redist., USP, 60 lb cases.....	4.25	: 4.50	Vanilla, 1 lb bot.....	22.50	: 25.00
Petit Grain, S. Am. 25 lb tins..	1.85	: 2.00			
French, 1 lb bot.....	7.00	: 8.00			
Italian, 25 lb tins.....	2.25	: 2.35			

## Aromatic Chemicals

### NATURAL DERIVATIVES

Anethol, 2 lb bot.....	1.25	: 1.75
Borneol, 1 lb bot.....	...	: 3.50
CITRAL, 25 lb cans.....	2.75	: 3.00
Citronellal, 1 lb bot.....	2.00	: 2.25
EUCALYPTOL, USP, 25 lb cans..	.75	: .80
Eugenol, USP, 25 lb cans.....	3.25	: 3.50
Geraniol, Domestic, 50 lb cans..	3.25	: 3.50
Imported, 5 lb bot.....	3.75	: 4.50
Extra.....	6.50	: 7.50
Iso-Eugenol, 1 lb bot.....	4.50	: 5.00
Imported.....	5.50	: 6.50
Linalol, 5 lb bot.....	6.25	: 7.50
From Bois de Rose, 5 lb bot..	11.00	: 12.75
<b>MENTHOL, 60 lb cases.....</b>	...	: 10.75
Less cases, 5 lb cans.....	...	: 11.25
Rhodinol, 1 lb bot.....	18.00	: 21.00
Extra, 1 lb bot.....	40.00	: 47.00
<b>SAFROL, 60 lb cans.....</b>	45	: 47
Thymol, USP, 25 lb tins.....	3.25	: 3.40

### SYNTHETIC AROMATICS

Acetaldehyde, 50% sol. pure, 5 lb bot..	1.75	: 2.00
Acetophenone CP, 1 lb bot.....	4.25	: 4.50
Aldehyde C-8 (Octyl) 1 lb bot..	45.00	: 60.00
Aldehyde, C-9 (Nonyl), 1 lb bot..	70.00	: 75.00
Aldehyde, C-10 (Decyl), 1 lb bot..	50.00	: 58.00
Aldehyde, C-12 (Dodecyl), 1 lb bot..	27.50	: 32.50
Aldehyde, C-14, 1 lb bot.....	22.50	: 25.00
Aldehyde, C-16, 1 lb bot.....	70.00	: 80.00
Aubepine, see Anisic Aldehyde	...	: ...
Amyl Acetate, pure 5 gal. cans. gal	4.00	: 4.25
Amyl Butyrate, 1 lb bot.....	1.75	: 2.00
Amyl Cinnamate, 1 lb bot.....	4.00	: 4.50
Amyl Formate, 1 lb bot.....	1.50	: 1.75
Amyl Phenyl Acetate, 1 lb bot..	4.50	: 5.00
<b>AMYL SALICYLATE, dom. 100 lb chys. ....</b>	1.45	: 1.50
Imported.....	2.25	: 2.50
Amyl Valerate, 5 lb bot.....	4.75	: 5.00
Anisic Aldehyde, 1 lb bot.....	3.75	: 4.25
<b>BENZALDEHYDE, USP, 40 lb chys..</b>	1.40	: 1.50
FFC, 40 lb chys.....	1.50	: 1.65
Benzot Ether, See Ethyl Benzoate	...	: ...
Benzophenone, 1 lb bot.....	6.75	: 7.00
Benzyl Acetate, 100 lb chys.....	1.55	: 1.75

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PRICES CURRENT SECTION

## Aromatic Chemicals

Benzyl Alcohol, 5 lb. bot. ....	1.45	1.55	Iso-Butyl Benzoate, 5 lb. bot. ....	4.75	5.00	Skatol, 1 oz. bot. ....	7.00	7.25
BENZYL BENZOATE, 5 lb. bot. ....	1.00	1.75	Iso-safran, 1 lb. bot. imported. ....	5.25	5.50	Terpinyl Acetate, 25 lb. cans. ....	1.65	1.85
Medicinal FFC. ....	1.75	2.00	Domestic, 5 lb. bot. ....	4.00	4.25	Imported, 25 lb. cans. ....	1.90	2.20
Benzyl Butyrate, C.P., 1 lb. bot. ....	5.50	6.00	Linyl Acetate, 1 lb. bot. Dom. ....	8.00	8.50	TERPINEOL, CP, 1000 lb. drums. ....	.48	.50
Benzyl Cinnamate, 1 lb. bot. ....	10.00	10.50	Imp., 1 lb. bot. ....	8.00	8.50	Cans, 50 lb. ....	.53	.57
Benzyl Formate, 1 lb. bot. ....	3.00	3.25	Linyl Benzoate, 1 lb. bot. ....	13.00	14.00	Absolute, 25 lb. cans. ....	.90	1.15
Benzyl Propionate, 1 lb. bot. ....	5.00	5.25	Linyl Benzoate, 5 lb. bot. ....	10.50	12.00	Imported, 25 lb. cans. ....	1.10	1.20
Bornyl Acetate, 1 lb. bot. ....	3.00	3.50	Methyl Formate, 5 lb. bot. ....	4.75	5.00	VANILLIN, USP, 500 oz. cans. ....	.40	.45
Bromistrol, 25 lb. kegs. ....	3.00	4.00	Methyl Acetophenone ....	4.75	5.00	Cans, 16 oz., 80 oz. ....	.50	.51
Butyl Anthranilate, 1 lb. bot. dom. ....	16.00					Second Hands ....	.42 1/2	.47 1/2
Butyric Ether, See Ethyl Butyrate			METHYL ANTHRANILATE dom.,			Valerianic Ether, See Ethyl Valerate		
Cinnamic Acid, 5 lb. cans. ....	3.00	3.25	1 lb. bot. ....	2.75	3.25	Yara Yara, 1 lb. cans. ....	1.75	2.00
Cinnamic Alcohol, liquid 1 lb. bot. ....	9.00	9.50	Imported ....	4.50	5.00			
Crystallizable ....	9.50	10.00	Methyl Benzoate, 5 lb. bot. import. ....	2.00	2.25			
Cinnamic Aldehyde ....	3.50	3.75	Domestic, 5 lb. bot. ....	1.75	2.00			
CITRONELLOL, 1 lb. bot. ....	9.00	11.00	Methyl Cinnamate, 1 lb. bot. ....	3.50	3.75			
Imported, 1 lb. bot. ....	10.00	12.00	Methyl Heptenone, 1 lb. bot. ....	8.00	8.25			
Citronellyl Acetate, 1 lb. bot. ....	13.00	14.00	Methyl Paracresol, 1 lb. bot. ....	8.00	9.00			
COUMARIN, 25 lb. cans. ....	3.40	3.65	Methyl Phenylacetate, 5 lb. bot. dom. ....	3.75	4.00			
DIETHYL PHTHALATE, 25 lb. cans. ....	.50	.55	METHYL SALICYLATE, USP 500 lb.					
1000 lb. drs. ....	.40	.45	drums ....	.45				
Diphenylchloride, 25 lb. tins. ....	.85	.90	50 lb. cases ....	.47				
Ethyl Acetate, pure, 5 lb. bot. ....	1.85	2.00	Second Hands ....	.44	.45			
Ethyl Benzoate, 5 lb. bot. ....	1.75	2.00	Mirbane, rect., 1000 lb. drums. ....	.12 1/2	.14			
Ethyl Butyrate, 5 lb. bot. ....	3.25	3.50	Musk Ambrette, 1 lb. cans. ....	15.00	16.00			
Ethyl Caproate, 1 lb. bot. ....	3.25	3.50	Musk Ketone, 1 lb. cans. ....	17.75	19.00			
Ethyl Cinnamate, 1 lb. bot. ....	3.25	3.50	Musk Xylene, 5 lb. cans. ....	4.50	5.00			
Ethyl Formate, 5 lb. bot. ....	2.00	2.10	Nerolin, 1 lb. cans. ....	1.65	2.00			
Ethyl-methyl Paracresol, 1 lb. bot. ....	3.25	3.50	Oenanthalic Ether, 1 lb. bot. ....	1.50	2.00			
Ethyl Phenylacetate, 5 lb. bot. ....	3.75	4.00	Phenylacetaldehyde, Dom.,					
Ethyl Propionate, 1 lb. bot. ....	2.25	2.50	1 lb. bot. ....	8.00	10.00			
Ethyl Valerate, 5 lb. bot. ....	4.50	4.75	Imported ....	8.00	9.00			
Ethyl Salicylate, 5 lb. bot. ....	3.25	3.50	80-85 p.e. ....	15.00	18.00			
Formic Ether, See Ethyl Formate			Phenylacetic Acid, 1 lb. bot. ....	8.00	3.25			
Geranyl Acetate, 1 lb. bot. ....	5.00	5.50	Phenyl Diacetate, 1 oz. bot. ....	3.25	3.50			
Geranyl Butyrate, 1 lb. bot. ....	13.00	13.50	PHENYLETHYLALCOHOL dom.,					
Geranyl Formate, 1 lb. bot. ....	12.00	12.50	1 lb. bot. ....	8.00	10.00			
Heliotropin, dom., 100-10 lb. ....	1.85	2.00	Imported ....	8.00	9.00			
Imported ....	2.50	2.75	Phenylethyl Butyrate, 1 lb. bot. ....	26.00	28.00			
Hydroxycitronellal, 1 lb. bot. ....	12.00	14.00	Phenylethyl Formate, 1 lb. bot. ....	19.00	21.00			
Indol, CP, 1 oz. bot. ....	6.00	6.50	Phenylethyl Propionate, 1 lb. bot. ....	20.00	24.00			
Isorone, 1 lb. bot. 100% ....	10.00	11.00	Phenylethyl Valerate, 1 lb. bot. ....	25.00	29.00			
Alpha ....	14.50	16.00	Phenylpropylalcohol, 1 lb. bot. ....	15.00	16.00			
Beta ....	12.75	14.50						
Methyl ....	16.00	18.00						

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 AGAR AGAR—3 bbls., McKesson & Robbins, London.  
 ALCOHOL—*Denatured*, 250 bbls., C. Esteve, Arcelibo.  
 AMMONIUM—*Carbonate*, 15 cks., J. Turner & Co., Liverpool.  
 ARSENIC—*Sulfide*, 15 kgs., L. H. Butcher Co., London.  
 BALSAM—6 bbls., Ultramares Corp., Para; *Copaiba*, 23 cs., Order, Para.  
 BARIUM—*Chloride*, 92 cks., Goldschmidt Corp., Rotterdam; 79 cks., C. Tennant Sons & Co., Bremerhaven.  
 BARK—*Cinchona*, 163 bls., Order, Rotterdam.  
 CARBON—*Decolorizing*, 441 bgs., L. A. Solomon & Bros., Rotterdam.  
 CASEIN—1667 bgs., Order, Buenos Aires.  
 CHLORAMINOPHENOL SULFACID—2 cs., Grasselli Chem. Co., Rotterdam.  
 CHROME TANNING SALT—1 cs., Grasselli Chem. Co., Rotterdam.  
 COLORS—2 cks., 1 cs., H. A. Metz & Co., Rotterdam; 24 cks., 2 jugs, 3 cks., Kuttroff Pickhardt & Co., Rotterdam; 33 cs., J. W. Warnecke Corp., Rotterdam; 7 cks., Garfield Aniline Wks., Rotterdam; 12 cks., 1 cs., Grasselli Chem. Co., Rotterdam; 4 pkgs., Sandoz Chem. Wks., Havre; 5 cks., Irving Bank, Liverpool; 2 cs., B. F. Drakenfeld & Co., Liverpool; 4 cs., Devoe & Reynolds Co., London; 1 cs., 3 cks., Franklin Imp. & Exp. Co., Hamburg; 1 csk., H. A. Metz & Co., Hamburg; 20 cs., R. F. Downing & Co., Hull; *Bronze Powder*, 6 cs., W. H.

Kemp Co., Bremen; 6 cs., Phoenix Shpg. Co., Bremen; *Coal Tar*, 9 cks., H. A. Metz & Co., Rotterdam; 1 csk., Diamond Ink Co., Hamburg; 1 csk., Franklin Imp. & Exp. Co., Hamburg.  
 DRAGONS BLOOD—3 cs., Peek & Velsor, London.  
 EXTRACTS—*Quebrach*, 3550 bgs., Goldman Sachs & Co., Buenos Aires; 847 bgs., Standard Bk. of So. Africa, Buenos Aires.  
 FLOWERS—25 cs., H. Bayersdorfer, Mar-selles.  
 FULLERS EARTH—550 bgs., L. A. Salomon & Bro., London.  
 GELATIN—80 cs., P. Puttmann, Rotterdam; 12 cs., J. P. Smith & Co., Liverpool; 80 cs., Amer. Exp. Co., Rotterdam.  
 GLUE—2 bgs., Steinwardter & Nordlinger, Valparaíso; 100 bgs., S. Isaacs & Co., Rotterdam; 300 bgs., Nat. Gum & Mica Co., London; 50 bgs., Order, London; 30 bgs., Amer. Exp. Co., Liverpool.  
 GLYCERINE—50 drs., Marx & Rawolle, Havana; 14 drs., Order, Liverpool.  
 GUM—525 bgs., Thurston & Braidich, Port Sudan; 500 bgs., P. E. Anderson, Port Sudan; 303 bgs., T. M. Duché & Sons, Port Sudan; 560 bgs., Order, Port Sudan; 250 bgs., P. E. Anderson & Co., Port Sudan; 400 bgs., Order, Port Sudan; *Arabic*, 1 cs., St. Shefe, Marseilles; *Copal*, 964 bkts., 136 bgs., Innes & Co., Macassar; 66 bkts., Pater-son Boardman & Knapp, Macassar; 68 bkts., Kidder Peabody & Co., Macassar; 68 bkts., A. Klipstein & Co., Macassar; 267 bkts., Brown Bros. & Co., Macassar; 416 bkts., Schmid & Jaendel, Macassar; 390 bkts., Innes & Co., Macassar; 145 cs., Order, Macassar; 410 bgs., Baring Bros. & Co., Port Adelaide; 128 bgs., Order, Singapore. *Damar*, 100 cs., Guaranty Trust Co., Batavia; 200

cs., Ned Ind Handels, Macassar; 100 cs., Order, Macassar; *Karyya*, 120 bgs., Brit. Bk. of So. Amer., Bombay; 249 bgs., Order, Bombay; *Kauri*, 267 cks., 15 cs., Guaranty Trust Co., Auckland; 400 cs., Baring Bros. & Co., Auckland; 10 cs., Equit. Trust Co., Auckland; 29 cs., Brown Bros. & Co., Auckland; 242 cks., Chem. Nat. Bk., Auckland; 25 cs., Irving Bk., Auckland; 374 cks., Chase Nat. Bk., Auckland; 423 cks., 772 cs., Order, Auckland; *Olibanum*, 68 cs., Order, Bom-bay; *Yacca*, 233 bgs., 497 bgs., Order, Port Adelaide.  
 IRON—*Silicate*, 10 cks., A. Murphy & Co., Liverpool.  
 IRON OXIDE—12 cks., Reichard Coulston, Inc., Liverpool; 20 cks., Order, Liverpool; 1 bbl., A. D. Strauss & Co., Malaga; 100 bbls., C. J. Osborn Co., Malaga; 100 bbls., Amer. Hawaiian S. S. Co., Malaga; 211 bbls., Smith Chem. Co., Malaga; 75 bbls., E. M. & F. Waldo, Malaga; 75 bbls., C. K. Williams, Malaga.  
 JUICE—*Lime*, 65 cks., Park Benziger & Co., St. Lucia; 70 cks., F. B. Vandegriff & Co., Dominica; 940 cs., J. P. Smith & Co., Lon-don.  
 LEAVES—3 cs., St. Shefe, Marseilles; *Buachu*, 5 bls., Nat. City Bk., Cape Town; 4 bls., Order, Cape Town; *Coca*, 35 bls., Maywood Chem. Wks., So. Amer. Ports; *Laurel*, 60 bls., Order, Marseilles; *Maruba*, 86 bls., Order, Marseilles; *Senna*, 258 bls., Nat. Bk. of Egypt, Port Sudan; *Sage*, 203 bls., B. H. Old & Co., Palermo; 4 bls., Baldwin Univ. Co., Palermo; *Thyme*, 24 bls., Seck & Kane, Marseilles; 60 bls., C. L. Heusinger, Inc., Marseilles; 3 cs., St. Shefe, Marseilles.  
 LICORICE—52 cs., H. Utard, Tarragona; 50 cs., Peek & Velsor, Tarragona; *Paste*, 200 cs., Wood & Selick, Smyrna; 10 cs., Brit.

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- OXIDE—Red, 33 cks., J. Lee Smith & Co., Hull.
- PHENOL—3 kgs., Monsanto Chem. Wks., Liverpool.
- POTASSIUM SALTS—26 bbls., Chatham & Phoenix Nat. Bk., London; 5 cs., Hager Loudeberg Co., London; *Bicarbonate*, 50 cks., Products Co., Rotterdam; *Caustic*, 10 cs., 4 drs., J. W. Hampton, Jr., & Co., Hallstavl.
- QUININE—50 cs., R. W. Greeff & Co., Rotterdam.
- ROOT—8 bbls., 5 bgs., Nickells Rowland Co., Hamburg; *Gentian*, 158 bbls., Order, Marseilles; *Licorice*, 735 bgs., Order, Smyrna; 50 cs., Order, Marseilles; 981 pgs., Murray Nickell, Alicante.
- SEEDS—*Caraway*, 40 bgs., Order, Bombay; 50 bbls., Levy & Lewes, Rotterdam; 100 bgs., 50 bbls., Archibald & Lewis Co., Rotterdam; 50 bgs., C. E. Armstrong & Co., Rotterdam; 175 bbls., Jaburg Bros., Rotterdam; 50 bbls., Spencer Import Co., Rotterdam; *Castor*, 1400 bgs., E. D. Sassoon Co., Bombay; 7000 bgs., Strauss & Co., Bombay; 2049 bgs., Volkart Bros., Bombay; 15948 bgs., Order, Bombay; 3432 bgs., Order, Calcutta; 2239 bgs., Order, Calcutta; *Cumin*, 200 bgs., Bk. of the Americas, Bombay; 286 bgs., Equit. Trust Co., Bombay; *Flax*, 2,796,049 kilos, Order, Santa Fe; 17,150 bgs., 352,486 kilos, Order, Rosario; 33,322 bgs., Spencer Kellogg & Sons, Buenos Aires; *Mustard*, 200 bgs., Irving Bk., Bombay; 200 bgs., Order, Bombay; 442 bgs., Order, London; *Poppy*, 100 lbs., Irwin Harrison & Crosfield, Inc., Rotterdam; 300 bgs., Archibald & Lewis Co., Rotterdam; 100 bgs., C. E. Armstrong Inc., Rotterdam; 100 bgs., Galderon Bros., Rotterdam.
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- SULFUR—20 cks., Order, Hull.
- TALC—500 bgs., Coty, Inc., Genoa.
- TARTAR—205 bgs., C. Pfizer, Marseilles; 205 bgs., Royal Bkg. Powder Co., Marseilles; 100 bgs., Equit. Trust Co., Marseilles; 801 bgs., Royal Bkg. Powder Co., Marseilles; 212 bgs., C. Pfizer & Co., Marseilles; 231 bgs., C. Pfizer & Co., Genoa.
- TEA FLUFF—250 bgs., Citro Chem. Co., Colombo.
- VALONIA—8154 bgs., Order, Smyrna; 4424 bgs., E. A. Bendaya, Dardanelles; 6482 bgs., J. A. Barkey & Co., Dardanelles; 950 bgs., A. Benadava, Constantinople.
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- WOOL GREASE—100 bbls., Amer. Exch. Nat. Bk., Bremen; 30 bbls., Pfaltz & Bauer, Bremerhaven.
- ZINC—250 bbls., Amer. Exch. Natl. Bk., Marseilles; *Puriss*, 1 ck., C. A. Sykes, London.

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July 9 to 16

- BARIIUM CHLORIDE—45 casks, Mechanics and Metals Nat. Bank, Rotterdam.
- BARYTES—400, 500 kilos, Phila. Nat. Bank, Rotterdam.
- BAUXITE, CRUDE—3975 tons, Republic Mining & Mfg. Co., Demarara.
- CHEMICAL PRODUCTS—29 cases, E. I. Du Pont de Nemours & Co., Havre; 80 carboys, 30 casks, Roessler & Hasslacher Chem. Co., Rotterdam; 82 casks, Hugo Kastor, Rotterdam.
- LITHOPONE—40 casks, Brown Bros. & Co., Rotterdam.
- MAGNESITE, CALCINED—432 bbls., Brown Bros. & Co., Rotterdam.
- PHARMACEUTICAL PRODUCTS—10 cases, Stanley Flag, Havre.
- POTASH, ALUM—20 casks, Order, Rotterdam.
- PRUSSIAN—19 casks, Bolivia Shipping Co., Antwerp.
- SAL AMMONIAC—17 cks., Koons, Wilson & Co., Rotterdam.
- SALT—508,000 kilos, Corn Exchange Nat. Bank, Rotterdam.
- SODIUM, SILICATE—2 pkgs., Phila. Quartz Co., Rotterdam.
- SPICES, CASSIA—284 pkgs., Order, Calcutta.
- TANNING EXTRACT—14 bbls., Rohm & Haas Co., Rotterdam.
- TAPIOCA FLOUR—762 bags, Phila. Nat. Bank, Calcutta.

## IMPORTS AT BOSTON

July 12 to 17

- CASEIN—1334 bags, Order, Buenos Aires; 450 bbls., Order, Buenos Aires.
- EPSOM SALT—475 bags, Order, Hamburg.
- GLAUBER'S SALT—475 bags, R. & H. Chem. Co., Hamburg.
- MAGNESITE—101 bbls., Brown Bros., Rotterdam.
- OIL, COD—122 casks, Order, Halifax; 30 casks, Order, Antwerp.
- ZINC, OXIDE—450 bbls., E. F. Ring, Antwerp.

## IMPORTS AT NEW ORLEANS

July 11 to 18

- FULLER'S EARTH—17,000 bags, Order, London.
- SALT CAKE—454,720 lbs., Order, England.
- SULFITE PULP—2500 bales, Order, Scandinavia.

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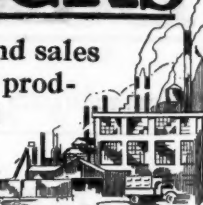
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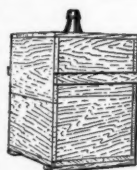
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**ESSENTIAL OILS**—Southern dealer of pure Wintergreen, Birch and Sassafras wants reliable sales agent to handle products for export and to the consuming trade. Must have full assurances as to reliability and ability to handle these products intelligently and profitably. Write with bank and trade references to Box 126, DRUG & CHEMICAL MARKETS.

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**SELLING COMPANY**, with established reputation, desires to add new chemical products to its list. Will represent out-of-town chemical companies in heavy chemicals, intermediates, dyes and rubber accelerators. Box 102, DRUG & CHEMICAL MARKETS.

**CRUDE DRUG IMPORTER** desires representatives in Boston, St. Louis, Atlanta, Philadelphia and Cincinnati. Can be handled as side line. Commission basis. Address, Box 779, DRUG & CHEMICAL MARKETS.

## SITUATIONS WANTED

**CHEMICAL ENGINEER**—Mass. Tech. graduate, nine years experience; go anywhere; good references. Box 121, DRUG & CHEMICAL MARKETS.

**SALESMAN**—Seven years with present employer; thoroughly familiar with heavy acids and chemicals; seeks opening with future advancement; thirty-six years old, married, Philadelphia or New York territory preferred; can furnish best references as to ability and reliability. Box 124, DRUG & CHEMICAL MARKETS.

**TEXTILE MILLS**—Advertiser has sold colors, finishes, bleaches, soaps and so forth to New England trade for eleven years, and for personal reasons desires to move into Southern Territory. Not afraid of work and knows the game. Box 125, DRUG & CHEMICAL MARKETS.

## SITUATIONS WANTED

**CHEMIST**, with three years industrial experience, now employed, desires technical or business position where there is an opportunity for advancement. References. Box 117, DRUG & CHEMICAL MARKETS.

**CHEMICAL EXECUTIVE**—Ph.D., 42, married. Long experience in general analysis, control work, and research. Desires position where a broad chemical knowledge and long experience can be applied to production and business development. Box 108, DRUG & CHEMICAL MARKETS.

**WELL KNOWN RESEARCH CHEMIST** desires consultation or permanent position in colloids, drugs, pharmaceuticals, textiles. Highest American references for chemical skill, personal integrity and business capacity. Extensive patent record. Broad experience in finding and establishing new products and processes. Able negotiator. Can furnish laboratory if required. Box 778, DRUG & CHEMICAL MARKETS.

**CHEMICAL SALESMAN**—With college education (some chemistry) three years experience, good personality, hard worker, familiar with New York and New Jersey trade; has handled general line of industrial chemicals, high references and wide personal acquaintance. Box 774, DRUG & CHEMICAL MARKETS.

**GRADUATE CHEMIST** of long experience. in possession of good practical formulae for specialties, wishes to make connection with established concern in that line. Would consider selling formulae. Box 777, DRUG & CHEMICAL MARKETS.

**CHEMICAL ENGINEER**—Experienced in organic chemical process development, both in coal tar products and petroleum, having complete laboratory facilities, seeks consulting work on new process or formula development. Box 104, DRUG & CHEMICAL MARKETS.

## HELP WANTED

**DYESTUFF EXECUTIVE** requires a secretary, a man of 25 or 26, who is familiar with the dyestuff business and who has had a clean record in the trade. Write giving age, experience, education, salary desired, and other facts to Box 107, DRUG & CHEMICAL MARKETS.

## HELP WANTED

**A GROWING WHOLESALE** and manufacturing concern in Bakers' and Confectioners' supplies desires a chemist who is willing to invest money and services in an established business operating four years. Box 101, DRUG & CHEMICAL MARKETS.

**A MAN** who controls the job you want is most apt to be a regular reader of this column. For real positions in the chemical, drug, dye, oil and allied fields no medium brings better results than these Wants and Offers—5c a word.

**DRUGGISTS GLASSWARE**—Established house wants salesman to call on wholesale and drug sundry houses in Middle West. Drawing account and bonus in good territory to the right man. Box 773, DRUG & CHEMICAL MARKETS.

**PAINTS**—Wanted manager for a growing paint factory. Must be practical man. State salary. Box 769, DRUG & CHEMICAL MARKETS.

**WANTED**—To communicate with salesman with large territory, and calling on Wholesale Drug Trade, Manufacturers of Chewing Gum, Candies and Toilet Preparations. Interesting side line for right man. Box 108, DRUG & CHEMICAL MARKETS.

**CHEMICAL DEALER** specializing in heavy chemicals to New England mills wants to get in touch with a high grade, aggressive, capable salesman with the object of a connection, that would lead to the opening of a branch office of which he would have charge, on a salary and commission on territory basis. Only a high grade man will be considered who can convince us of his ability, standing and reliability and one at present employed since these plans will not materialize until the Fall. It is a real opportunity for the right man. Write us very fully in complete confidence. Box 112, DRUG & CHEMICAL MARKETS.

**SALESMAN WANTED** to handle Naphthalene to the drug trade. Full particulars as to past experience, education and references. Box 115, DRUG & CHEMICAL MARKETS.

**TOILET PREPARATION Specialty House** seeks purchasing agent familiar with perfumers' raw materials, boxes, bottles, printing, etc., to assist President of the concern and gradually assume full responsibilities for buying. Box 116, DRUG & CHEMICAL MARKETS.

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- 2 36" x 54" x 96" American Kinyoun-Francis Steam and Formaldehyde disinfectors.
- 1000 Tons Duriron pipe, fittings and tower sections. Write for Bulletin No. 14.
- 8 6,000 lb. Caterary type Nitric Acid retorts. 8' inside dia., 9' inside depth. Equipped with covers.

Bulletin No. 8 General Equipment  
Bulletin No. 20 Platform Scales

Write for prices and specifications.

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**ROBERT McNEIL**, pharmaceutical manufacturer, established 1879, York St., Philadelphia, has opportunities for a few additional salesmen. Replies confidential.

**DYE CHEMIST**—A large manufacturer wants technical, practical colorist capable of handling correspondence with dyers on problems and sales promotion. Full information in confidence. Box 118, DRUG & CHEMICAL MARKETS.

**SALESMAN**—Pharmaceutical manufacturer has place for assistant district manager in Middle West territory. Must be experienced, reliable man of strong personality able to handle office work and salesmen on road. Box 120, DRUG & CHEMICAL MARKETS.

**DRUGS AND CHEMICALS**

**FOR SALE**—Approximately 20,000 lbs. (minimum car) Germantown Lamp Black, packed in 12½ lb. paper bags at an attractive price. Box 105, DRUG & CHEMICAL MARKETS.

**ADEPS LANAE U.S.P.** (Pharmaceutical Lanoline) We wish to sell eminently economical process with full details as to erection of plant. 20 years experience in prominent German work. Apply Dr. Grothe & Co., 76 Kaiser Friedrichstr., Berlin-Neukoelln.

**FOR SALE**—Oxalic Acid in quantity. A good price to a prompt, big buyer. Box 109, DRUG & CHEMICAL MARKETS.

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100 Export Cases Disinfectant Chlorolin-Dips 25 one pound bottles \$3.25 25,000 tubes Hypodermic Nitroglycerin Tablets, National Manufacturer, 2c each. Box 123, DRUG & CHEMICAL MARKETS.

**PLANT EQUIPMENT**

**WANTED**—Second hand Shriver Filter Press. Advise fully of condition, capacity and model. Box 110, DRUG & CHEMICAL MARKETS.

**FOR SALE**—One Automatic World Labeling Machine, at an attractive price. Box 106, DRUG & CHEMICAL MARKETS.

**FOR SALE**—Wholesale stock of prescription bottles, about 40 gross, principally 2 and 3 ounce sizes. Good grade of standard make. Box 113, DRUG & CHEMICAL MARKETS.

**FOR SALE**—Odd lots of hospital, surgical and physician supplies. Some army goods. Write me your requirements and I will quote you best figure and terms. Box 114, DRUG & CHEMICAL MARKETS.

**TANK CARS** for rent, 6,800 to 7,200 gals. 50 ton capacity. Receivers Butterworth Judson Corp., Newark, N. J.

**FOR SALE**—Extractors 30", 40", 48", Sweetland Filters No. 2 to No. 12, Vacuum Shelf Dryers, Stills, Pans, Alcohol columns, Raymond mills, etc. Consolidated Products Co., Inc., 15 Park Row, New York City.

**FOR SALE**—Surplus Equipment—One 750 K. W. General Electric Mixed Pressure Turbo Generator. Three McIntosh & Seymour Tandem Compound Engines and Generators. One Merrill Oil Heating System. Three Trolley Cars. Two Deep Well Pumps. One Dentist Chair. One lot Ammeters, Voltmeters and Circuit Breakers. Two Wickes Vertical Water Tube. 300 H. P. Boilers with Stokers. Two Heine Water Tube 330 H. P. Boilers with Stokers. MONSANTO CHEMICAL WORKS, St. Louis, Mo.

**PLANT EQUIPMENT**

**WANTED**—Vacuum Shelf Dryer, small size, with condenser. State full particulars including price. Box 119, DRUG & CHEMICAL MARKETS.

**PHARMACEUTICAL MACHINERY WANTED**—Will pay cash for second hand Pharmaceutical Machinery, such as bottle-filling, washing, labelling, corking conveyers, emulsionizer etc., PAUL AND COMPANY, 80 WALL STREET, NEW YORK CITY.

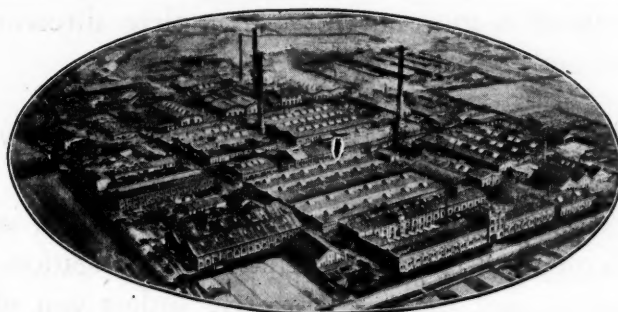
**FOR SALE**—Size O Hunter Sifter and Mixer; used three weeks; good as new; \$30. Address MLW, Room 822—510 N. Dearborn St., Chicago.

**WANTED**—Oliver, Kelly Filters, Tower, Feeders, Vacuum Driers, Alcohol Still, Pumps, Condensers, Extractor, Enameled Kettles, Eiyria Still, Pulverizer, Laboratory Balance, Scales, Tanks, Electric Heaters, Electric Panel, Compressors, Cocks, Pans and other used machinery. Full particulars or no attention. Lakreza Chemical Works, 6201 Chestnut, Philadelphia, Pa.

**WANTED**—A buyer for surplus stock 2 oz.—4 oz. and 8 oz. round amber bottles. Kork-N-Seal finish (about 1,000 gross). Sherwin-Williams Co., 601 Canal Road, N. W., Cleveland, Ohio.

**MISCELLANEOUS**

**ASK THE Bureau of Employment of the Chemists' Club (Agency) 53 East 41st Street, New York City.** If you need a chemist (man or woman) for the laboratory or works. If you wish a position for the practice of your profession. No charge to employers. Moderate fee to applicants. Prof. Herbert R. Moody, Chairman Club Committee.



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Greeff & Co, R W, 78 Front st N Y	Bowling Grn 5825
Klipstein & Co, A, 644 Greenwich st N Y	Spring 9540
Merck & Co, 45 Park Place N Y	Barclay 8070
Morgan & Co, Clarence, 355 W Ontario st Chgo	Franklin 4941
Pfaltz & Bauer, 300 Pearl st N Y	Beekman 2942
Daigger & Co, A, Chgo	North Star Chem Co.
Hance Bros & White, Phila	Lawrence Mass
Hummel & Robinson, N Y	Parsons, M W, N Y

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American Oil & Supply Co, 238 Wilson av Newark	Market 0250
Barrett Co, 40 Rector st N Y	Whitehl 0800
Braun-Knecht-Heimann Co, 584 Mission st San Fran	Kearny 3493
Cooper & Co, Chas, 194 Worth st N Y	Canal 9890
Doomer & Smith Co, 374 Mulberry st Newark	Mulberry 1905
General Chem Co, 40 Rector st N Y	Whitehl 2220
Grasselli Chem Co, Guardian bldg Cleveland	Main 6460
Independent Chem Co, 87 Dey st N Y	Cortland 5064
Innis Speiden & Co, 46 Cliff st N Y	Beekman 4031
Kalbfleisch Corp, 200 5 av N Y	Grmcy 4272
Morgan & Co, Clarence, 355 W Ontario st Chgo	Franklin 4941
Powers-Weightman-Rosengarten, 916 Parrish Phila	Poplar 4525
Roessler & Hasslacher Chem Co, 709 6 av N Y	Bryant 9880
Seidler Co, Alex, Orange & Ogden sts Newark	Market 8631
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Wiarda & Co, John C, 259 Green st Bklyn N Y	

American Cyanamid Co, N Y  
Clapp Ammon Co, B P, Providence  
Erkenbrach Co, Geo A, N Y  
Globe Chem Co, Cincinnati  
Harshaw Fuller & Goodwin Co, Cleveland  
Mailliard & Schmiedell, San Fran  
Mallinckrodt Chem Wks, St Louis  
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**ANILINE DYES See****ANILINE**

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# DRUG & CHEMICAL MARKETS

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ETHER, U. S. P.	NORMAL PROPYL ALCOHOL
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